

## The New IMA List of Minerals – A Work in Progress – Updated: July 2026

In the following pages of this document a comprehensive list of all valid mineral species is presented. The list is distributed (for terms and conditions see below) *via* the web site of the Commission on New Minerals, Nomenclature and Classification of the International Mineralogical Association, which is the organization in charge for approval of new minerals, and more in general for all issues related to the status of mineral species. The list, which will be updated on a regular basis, is intended as the primary and official source on minerals.

### Explanation of column headings:

**Name:** it is the presently accepted mineral name (and in the table, minerals are sorted by name). Mineral names are common nouns, and thus have an initial capital letter only at the beginning of a sentence, or when they occur in an index or in a table, as in the current list.

**CNMMN/CNMNC approved formula:** it is the chemical formula of the mineral.

**IMA status:** A = approved (it applies to minerals approved after the establishment of the IMA in 1958); G = grandfathered (it applies to minerals discovered before the birth of IMA, and generally considered as valid species); Rd = redefined (it applies to existing minerals which were redefined during the IMA era); Rn = renamed (it applies to existing minerals which were renamed during the IMA era); Q = questionable (it applies to poorly characterized minerals, whose validity could be doubtful).

**IMA No. / Year:** for approved minerals the IMA No. is given: it has the form XXXX-YYY, where XXXX is the year and YYY a sequential number; for grandfathered minerals the year of the original description is given. In some cases, typically for Rd and Rn minerals, the year may be followed by s.p. (special procedure): it refers to the year in which a specific action (redefinition and/or renaming) took place, and was approved by IMA. This may be related to the approval of a report by a dedicated subcommittee on a given group of minerals.

**Country:** it is the country in which the mineral was discovered for the first time (according to the national boundaries as of today).

**First reference:** it is the original reference for each mineral.

**Second reference:** it is the most recent or most complete reference for each mineral, possibly including a crystal structure study.

**Caveat (IMPORTANT):** the list includes selected information on the **6226** currently valid species; inevitably there will be mistakes in it. We will be grateful to all those who will point out errors of any kind, including typos. Please email your corrections to [marco.pasero@unipi.it](mailto:marco.pasero@unipi.it).

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| Name              | CNMMN/CNMNC approved formula                                                                                                                           | IMA Status | IMA No. / Year | Country               | First reference                                                                                                                        | Second reference                                                                |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|------------|----------------|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|
| Abellaite         | NaPb <sub>2</sub> (CO <sub>3</sub> ) <sub>2</sub> (OH)                                                                                                 | A          | 2014-111       | Spain                 | <i>European Journal of Mineralogy</i> <b>29</b> (2017), 915                                                                            |                                                                                 |
| Abelloemringerite | Cu <sub>2</sub> Pb <sub>2</sub> Mn <sup>3+</sup> Mn <sup>4+</sup> <sub>3</sub> O <sub>11</sub> (OH)(H <sub>2</sub> O) <sub>2</sub> ·H <sub>2</sub> O   | A          | 2025-036       | Republic of the Congo | CNMNC Newsletter 87 - <i>Mineralogical Magazine</i> <b>89</b> (2025), 706; <i>European Journal of Mineralogy</i> <b>37</b> (2025), 695 |                                                                                 |
| Abelsonite        | NiC <sub>31</sub> H <sub>32</sub> N <sub>4</sub>                                                                                                       | A          | 1975-013       | USA                   | <i>American Mineralogist</i> <b>63</b> (1978), 930                                                                                     | <i>American Mineralogist</i> <b>102</b> (2017), 1129                            |
| Abenakiite-(Ce)   | Na <sub>26</sub> Ce <sub>6</sub> (Si <sub>6</sub> O <sub>18</sub> )(PO <sub>4</sub> ) <sub>6</sub> (CO <sub>3</sub> ) <sub>6</sub> (SO <sub>2</sub> )O | A          | 1991-054       | Canada                | <i>Canadian Mineralogist</i> <b>32</b> (1994), 843                                                                                     |                                                                                 |
| Abernathyite      | K(UO <sub>2</sub> )(AsO <sub>4</sub> )·3H <sub>2</sub> O                                                                                               | G          | 1956           | USA                   | <i>American Mineralogist</i> <b>41</b> (1956), 82                                                                                      | <i>American Mineralogist</i> <b>49</b> (1964), 1578                             |
| Abhurite          | Sn <sup>2+</sup> <sub>21</sub> O <sub>6</sub> (OH) <sub>14</sub> Cl <sub>16</sub>                                                                      | A          | 1983-061       | Saudi Arabia          | <i>Canadian Mineralogist</i> <b>23</b> (1985), 233                                                                                     | <i>Canadian Mineralogist</i> <b>41</b> (2003), 659                              |
| Abramovite        | Pb <sub>2</sub> SnInBiS <sub>7</sub>                                                                                                                   | A          | 2006-016       | Russia                | <i>Zapiski Rossiyskogo Mineralogicheskogo Obshchestva</i> <b>136(5)</b> (2007), 45                                                     |                                                                                 |
| Abswurbachite     | Cu <sup>2+</sup> Mn <sup>3+</sup> <sub>6</sub> O <sub>8</sub> (SiO <sub>4</sub> )                                                                      | A          | 1990-007       | Greece                | <i>Neues Jahrbuch für Mineralogie Abhandlungen</i> <b>163</b> (1991), 117                                                              |                                                                                 |
| Abuite            | CaAl <sub>2</sub> (PO <sub>4</sub> ) <sub>2</sub> F <sub>2</sub>                                                                                       | A          | 2014-084       | Japan                 | <i>Journal of Mineralogical and Petrological Sciences</i> <b>112</b> (2017), 109                                                       |                                                                                 |
| Acanthite         | Ag <sub>2</sub> S                                                                                                                                      | G          | 1855           | Czech Republic        | <i>Annalen der Physik und Chemie</i> <b>95</b> (1855), 462                                                                             | <i>Superlattices and Microstructures</i> <b>83</b> (2015), 35                   |
| Acetamide         | CH <sub>3</sub> CONH <sub>2</sub>                                                                                                                      | A          | 1974-039       | Ukraine               | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>104</b> (1975), 326                                                      | <i>Journal of Physical Chemistry</i> <b>96</b> (1992), 668                      |
| Achalaite         | Fe <sup>2+</sup> TiNb <sub>2</sub> O <sub>8</sub>                                                                                                      | A          | 2013-103       | Argentina             | <i>Canadian Mineralogist</i> <b>54</b> (2016), 1043                                                                                    |                                                                                 |
| Achávalite        | FeSe                                                                                                                                                   | Rn         | 1939           | Argentina             | <i>Boletín de la Facultad de Ciencias Exactas, Físicas y Naturales, Universidad Nacional de Córdoba</i> <b>2</b> (1939), 73            | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1972), 276                   |
| Achyrophanite     | (K,Na) <sub>3</sub> (Fe <sup>3+</sup> ,Ti,Al,Mg) <sub>5</sub> O <sub>2</sub> (AsO <sub>4</sub> ) <sub>5</sub>                                          | A          | 2018-011       | Russia                | <i>Minerals</i> <b>15</b> (2025), 706                                                                                                  |                                                                                 |
| Acmonidesite      | (NH <sub>4</sub> ,K,Pb,Na) <sub>9</sub> Fe <sup>2+</sup> <sub>4</sub> (SO <sub>4</sub> ) <sub>5</sub> Cl <sub>8</sub>                                  | A          | 2013-068       | Italy                 | <i>Mineralogical Magazine</i> <b>83</b> (2019), 137                                                                                    |                                                                                 |
| Actinolite        | □Ca <sub>2</sub> (Mg <sub>4.5-2.5</sub> Fe <sup>2+</sup> <sub>0.5-2.5</sub> )Si <sub>8</sub> O <sub>22</sub> (OH) <sub>2</sub>                         | Rd         | 2012 s.p.      | Germany / Austria     | <i>Elements of Mineralogy</i> , 2nd ed., vol. 1. Elmsly, London (1794), 167                                                            | <i>American Mineralogist</i> <b>83</b> (1998), 458                              |
| Acuminite         | SrAlF <sub>4</sub> (OH)(H <sub>2</sub> O)                                                                                                              | A          | 1986-038       | Denmark (Greenland)   | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1987), 502                                                                          | <i>Zeitschrift für Kristallographie</i> <b>194</b> (1991), 221                  |
| Adachiite         | CaFe <sup>2+</sup> <sub>3</sub> Al <sub>6</sub> (Si <sub>5</sub> AlO <sub>18</sub> )(BO <sub>3</sub> ) <sub>3</sub> (OH) <sub>3</sub> (OH)             | A          | 2012-101       | Japan                 | <i>Journal of Mineralogical and Petrological Sciences</i> <b>109</b> (2014), 74                                                        |                                                                                 |
| Adamite           | Zn <sub>2</sub> (AsO <sub>4</sub> )(OH)                                                                                                                | G          | 1866           | Chile                 | <i>Comptes Rendus Hebdomadaires des Séances de l'Académie des Sciences</i> <b>62</b> (1866), 692                                       | <i>Zeitschrift für Kristallographie</i> <b>238</b> (2023), 355                  |
| Adamsite-(Y)      | NaY(CO <sub>3</sub> ) <sub>2</sub> (H <sub>2</sub> O) <sub>3</sub> ·3H <sub>2</sub> O                                                                  | A          | 1999-020       | Canada                | <i>Canadian Mineralogist</i> <b>38</b> (2000), 1457                                                                                    |                                                                                 |
| Adanite           | Pb <sub>2</sub> (Te <sup>4+</sup> O <sub>3</sub> )(SO <sub>4</sub> )                                                                                   | A          | 2019-088       | USA                   | <i>Canadian Mineralogist</i> <b>58</b> (2020), 403                                                                                     |                                                                                 |
| Addischoffite     | Ca <sub>2</sub> Al <sub>6</sub> Al <sub>6</sub> O <sub>20</sub>                                                                                        | A          | 2015-006       | Algeria (meteorite)   | <i>American Mineralogist</i> <b>102</b> (2017), 1556                                                                                   |                                                                                 |
| Adelite           | CaMg(AsO <sub>4</sub> )(OH)                                                                                                                            | G          | 1891           | Sweden                | <i>Geologiska Föreningens i Stockholm Förhandlingar</i> <b>13</b> (1891), 781                                                          | Experimental Mineralogy, Petrology and Geochemistry Meeting (2002), 30 (abstr.) |

|                  |                                                                                                                                                                                        |    |           |                     |                                                                                                                 |                                                               |
|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----------|---------------------|-----------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|
| Admontite        | $\text{Mg}_2[\text{B}_6\text{O}_7(\text{OH})_6]_{12} \cdot 9\text{H}_2\text{O}$                                                                                                        | A  | 1978-012  | Austria             | <i>Tschermaks Mineralogische und Petrographische Mitteilungen</i> <b>26</b> (1979), 69                          | <i>Crystal Structure Communications</i> <b>5</b> (1976), 433  |
| Adolfpateraite   | $\text{K}(\text{UO}_2)(\text{SO}_4)(\text{OH})(\text{H}_2\text{O})$                                                                                                                    | A  | 2011-042  | Czech Republic      | <i>American Mineralogist</i> <b>97</b> (2012), 447                                                              |                                                               |
| Adranosite       | $(\text{NH}_4)_4\text{NaAl}_2(\text{SO}_4)_4\text{Cl}(\text{OH})_2$                                                                                                                    | A  | 2008-057  | Italy               | <i>Canadian Mineralogist</i> <b>48</b> (2010), 315                                                              |                                                               |
| Adranosite-(Fe)  | $(\text{NH}_4)_4\text{NaFe}_2(\text{SO}_4)_4\text{Cl}(\text{OH})_2$                                                                                                                    | A  | 2011-006  | Italy               | <i>Canadian Mineralogist</i> <b>51</b> (2013), 57                                                               |                                                               |
| Adrianite        | $\text{Ca}_{12}(\text{Al}_4\text{Mg}_3\text{Si}_7)\text{O}_{32}\text{Cl}_6$                                                                                                            | A  | 2014-028  | Mexico (meteorite)  | <i>American Mineralogist</i> <b>103</b> (2018), 1329                                                            |                                                               |
| Aegirine         | $\text{NaFe}^{3+}\text{Si}_2\text{O}_6$                                                                                                                                                | A  | 1998 s.p. | Norway              | <i>Neues Jahrbuch für Mineralogie, Geognosie, Geologie und Petrefaktenkunde</i> (1835), 184                     | <i>Minerals</i> <b>9</b> (2019), 444                          |
| Aegirine-augite  | $(\text{Ca},\text{Na})(\text{Fe}^{3+},\text{Mg},\text{Fe}^{2+})\text{Si}_2\text{O}_6$                                                                                                  | Rd | 1988 s.p. | Russia              | Mikroskopische Physiographie der Petrographisch Wichtigen Mineralien. Schweizerbart'sche, Stuttgart (1892), 510 | <i>Australian Journal of Mineralogy</i> <b>14</b> (2008), 43  |
| Aenigmatite      | $\text{Na}_4[\text{Fe}^{2+}_{10}\text{Ti}_2]\text{O}_4[\text{Si}_{12}\text{O}_{36}]$                                                                                                   | A  | 1967 s.p. | Denmark (Greenland) | <i>Berg- und Hüttenmännische Zeitung</i> <b>24</b> (1865), 397                                                  | <i>European Journal of Mineralogy</i> <b>20</b> (2008), 983   |
| Aerinite         | $(\text{Ca},\text{Na})_6(\text{Fe}^{3+},\text{Fe}^{2+},\text{Mg},\text{Al})_4(\text{Al},\text{Mg})_6\text{Si}_{12}\text{O}_{36}(\text{OH})_{12}(\text{CO}_3)(\text{H}_2\text{O})_{12}$ | Rd | 1988 s.p. | Spain               | <i>Neues Jahrbuch für Mineralogie</i> (1876), 352                                                               | <i>European Journal of Mineralogy</i> <b>21</b> (2009), 233   |
| Aerugite         | $\text{Ni}_{8.5}(\text{AsO}_4)_2\text{As}^{5+}\text{O}_8$                                                                                                                              | Rd | 1965 s.p. | Germany             | <i>Journal für Praktische Chemie</i> <b>75</b> (1858), 239                                                      | <i>Acta Crystallographica</i> <b>B45</b> (1989), 201          |
| Aeschynite-(Ce)  | $\text{Ce}(\text{TiNb})\text{O}_6$                                                                                                                                                     | Rd | 1987 s.p. | Russia              | <i>Jahres-Bericht über die Fortschritte der Physischen Wissenschaften</i> <b>9</b> (1830), 182                  | <i>Doklady Akademii Nauk SSSR</i> <b>142</b> (1962), 181      |
| Aeschynite-(Nd)  | $\text{Nd}(\text{TiNb})\text{O}_6$                                                                                                                                                     | Rd | 1987 s.p. | China               | <i>Scientia Geologica Sinica</i> (1982), 424                                                                    |                                                               |
| Aeschynite-(Y)   | $\text{Y}(\text{TiNb})\text{O}_6$                                                                                                                                                      | Rd | 1987 s.p. | Norway              | <i>Skrifter udgivne af Videnskabs-Selskabet i Christiania</i> <b>6</b> (1906), 1                                | <i>European Journal of Mineralogy</i> <b>11</b> (1999), 1043  |
| Afghanite        | $(\text{Na},\text{K})_{22}\text{Ca}_{10}(\text{Si}_{24}\text{Al}_{24})\text{O}_{96}(\text{SO}_4)_6\text{Cl}_6$                                                                         | A  | 1967-041  | Afghanistan         | <i>Bulletin de la Société Française de Minéralogie et de Cristallographie</i> <b>91</b> (1968), 34              | <i>American Mineralogist</i> <b>97</b> (2012), 630            |
| Afmite           | $\text{Al}_3(\text{OH})_4(\text{H}_2\text{O})_3(\text{PO}_4)(\text{PO}_3\text{OH}) \cdot \text{H}_2\text{O}$                                                                           | A  | 2005-025a | France              | <i>European Journal of Mineralogy</i> <b>23</b> (2011), 269                                                     |                                                               |
| Afwillite        | $\text{Ca}_3[\text{SiO}_4][\text{SiO}_2(\text{OH})_2](\text{H}_2\text{O})_2$                                                                                                           | G  | 1925      | South Africa        | <i>Mineralogical Magazine</i> <b>20</b> (1925), 277                                                             | <i>Spectrochimica Acta A</i> <b>227</b> (2020), 117688        |
| Agaité           | $\text{Pb}_3\text{Cu}^{2+}\text{Te}^{6+}\text{O}_5(\text{OH})_2(\text{CO}_3)$                                                                                                          | A  | 2011-115  | USA                 | <i>American Mineralogist</i> <b>98</b> (2013), 512                                                              |                                                               |
| Agakhanovite-(Y) | $\text{YCa}\square_2\text{KBe}_3\text{Si}_{12}\text{O}_{30}$                                                                                                                           | A  | 2013-090  | Norway              | <i>American Mineralogist</i> <b>99</b> (2014), 2084                                                             |                                                               |
| Agardite-(Ce)    | $\text{CeCu}^{2+}_6(\text{AsO}_4)_3(\text{OH})_6(\text{H}_2\text{O})_3$                                                                                                                | A  | 2003-030  | Germany             | <i>Aufschluss</i> <b>55</b> (2004), 17                                                                          | <i>Physics and Chemistry of Minerals</i> <b>45</b> (2018), 39 |
| Agardite-(La)    | $\text{LaCu}^{2+}_6(\text{AsO}_4)_3(\text{OH})_6(\text{H}_2\text{O})_3$                                                                                                                | A  | 1980-092  | USA                 | Oxidation mineralogy of base metal deposits. MSA, Tucson (1983)                                                 | <i>Lapis</i> <b>9</b> (1984), 22                              |
| Agardite-(Nd)    | $\text{NdCu}^{2+}_6(\text{AsO}_4)_3(\text{OH})_6(\text{H}_2\text{O})_3$                                                                                                                | A  | 2010-056  | Greece              | <i>Journal of Geosciences</i> <b>57</b> (2011), 249                                                             |                                                               |
| Agardite-(Y)     | $\text{YCu}^{2+}_6(\text{AsO}_4)_3(\text{OH})_6(\text{H}_2\text{O})_3$                                                                                                                 | Rn | 1987 s.p. | Morocco             | <i>Bulletin de la Société Française de Minéralogie et de Cristallographie</i> <b>92</b> (1969), 420             | <i>Acta Crystallographica</i> <b>E69</b> (2013), i61          |
| Agmantinite      | $\text{Ag}_2\text{MnSnS}_4$                                                                                                                                                            | A  | 2014-083  | Peru                | <i>Mineralogical Magazine</i> <b>83</b> (2019), 233                                                             |                                                               |
| Agrellite        | $\text{NaCa}_2\text{Si}_4\text{O}_{10}\text{F}$                                                                                                                                        | A  | 1973-032  | Canada              | <i>Canadian Mineralogist</i> <b>14</b> (1976), 120                                                              | <i>Scientific Reports</i> <b>10</b> (2020), 15569             |
| Agricolaite      | $\text{K}_4(\text{UO}_2)(\text{CO}_3)_3$                                                                                                                                               | A  | 2009-081  | Czech Republic      | <i>Mineralogy and Petrology</i> <b>103</b> (2011), 169                                                          |                                                               |

|                 |                                                         |    |           |                       |                                                                                      |                                                                                           |
|-----------------|---------------------------------------------------------|----|-----------|-----------------------|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
| Agrinierite     | $K_2Ca[(UO_2)_3O_3(OH)_2]_2 \cdot 5H_2O$                | A  | 1971-046  | France                | <i>Mineralogical Magazine</i> <b>38</b> (1972), 781                                  | <i>American Mineralogist</i> <b>85</b> (2000), 1294                                       |
| Aguilrite       | $Ag_4SeS$                                               | G  | 1891      | Mexico                | <i>American Journal of Science, Ser. III</i> <b>41</b> (1891), 401                   | <i>Mineralogical Magazine</i> <b>77</b> (2013), 21                                        |
| Aheylite        | $Fe^{2+}Al_6(PO_4)_4(OH)_8(H_2O)_4$                     | A  | 1984-036  | Bolivia               | <i>Mineralogical Magazine</i> <b>62</b> (1998), 93                                   |                                                                                           |
| Ahlfeldite      | $Ni(SeO_3)(H_2O)_2$                                     | G  | 1935      | Bolivia               | <i>Centralblatt für Mineralogie, Geologie und Paläontologie</i> <b>6</b> (1935), 277 | <i>Materials Research Bulletin</i> <b>40</b> (2005), 781                                  |
| Ahrensite       | $SiFe_2O_4$                                             | A  | 2013-028  | Morocco (meteorite)   | <i>Geochimica et Cosmochimica Acta</i> <b>184</b> (2016), 240                        |                                                                                           |
| Aikinite        | $CuPbBiS_3$                                             | G  | 1843      | Russia                | <i>Practical Mineralogy</i> . Bailliere, London (1843), 127                          | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (2001), 115                             |
| Aiolosite       | $Na_2(Na_2Bi)(SO_4)_3Cl$                                | A  | 2008-015  | Italy                 | <i>American Mineralogist</i> <b>95</b> (2010), 382                                   |                                                                                           |
| Airdite         | $Sr(VO)_2(PO_4)_2(H_2O)_4$                              | A  | 2020-046  | Australia             | <i>Canadian Journal of Mineralogy and Petrology</i> <b>63</b> (2025), 191            |                                                                                           |
| Ajoite          | $K_3Cu^{2+}_{20}Al_3Si_{29}O_{76}(OH)_{16} \cdot 8H_2O$ | A  | 1958      | USA                   | <i>American Mineralogist</i> <b>43</b> (1958), 1107                                  | <i>Proceedings of the National Academy of Sciences of the USA</i> <b>99</b> (2002), 11002 |
| Akaganeite      | $(Fe^{3+}, Ni^{2+})_8(OH, O)_{16}Cl_{1.25} \cdot nH_2O$ | Rn | 1962-004  | Japan                 | <i>Mineralogical Magazine</i> <b>33</b> (1962), 270                                  | <i>American Mineralogist</i> <b>88</b> (2003), 782                                        |
| Akaogiite       | $TiO_2$                                                 | A  | 2007-058  | Germany               | <i>American Mineralogist</i> <b>95</b> (2010), 892                                   |                                                                                           |
| Akasakaite-(Ce) | $CaCe(Al_2Mn^{2+})(Si_2O_7)(SiO_4)O(OH)$                | A  | 2025-001  | Japan                 | <i>Journal of Mineralogical and Petrological Sciences</i> <b>121</b> (2026), 250927  |                                                                                           |
| Akasakaite-(La) | $CaLa(Al_2Mn^{2+})(Si_2O_7)(SiO_4)O(OH)$                | A  | 2025-002  | Japan                 | <i>Journal of Mineralogical and Petrological Sciences</i> <b>121</b> (2026), 250927  |                                                                                           |
| Akatoreite      | $Mn^{2+}_9Al_2Si_8O_{24}(OH)_8$                         | A  | 1969-015  | New Zealand           | <i>American Mineralogist</i> <b>56</b> (1971), 416                                   | <i>Canadian Mineralogist</i> <b>31</b> (1993), 321                                        |
| Akdalaite       | $Al_5O_7(OH)$                                           | A  | 1969-002  | Kazakhstan            | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>99</b> (1970), 333     | <i>Crystals</i> <b>9</b> (2019), 246                                                      |
| Åkermanite      | $Ca_2MgSi_2O_7$                                         | G  | 1884      | Sweden                | <i>Archiv for Matematik og Naturvidenskab</i> <b>13</b> (1890), 310                  | <i>American Mineralogist</i> <b>92</b> (2007), 1685                                       |
| Akhtenskite     | $MnO_2$                                                 | A  | 1982-072  | Russia                | <i>Izvestiya Akademii Nauk SSSR, Seriya Geologicheskaya</i> <b>9</b> (1989), 75      |                                                                                           |
| Akimotoite      | $MgSiO_3$                                               | A  | 1997-044  | Australia (meteorite) | <i>American Mineralogist</i> <b>84</b> (1999), 267                                   | <i>American Mineralogist</i> <b>108</b> (2023), 100                                       |
| Aklimaite       | $Ca_4[Si_2O_5(OH)_2](OH)_4(H_2O)_5$                     | A  | 2011-050  | Russia                | <i>Zapiski Rossiyskogo Mineralogicheskogo Obshchestva</i> <b>141(2)</b> (2012), 21   | <i>Zeitschrift für Kristallographie</i> <b>227</b> (2012), 452                            |
| Akopovaite      | $Li_2Al_4(OH)_{12}(CO_3)(H_2O)_3$                       | A  | 2018-095  | Kyrgyzstan            | <i>Mineralogical Magazine</i> <b>84</b> (2020), 301                                  |                                                                                           |
| Akrochordite    | $MnMn_2Mn_2(AsO_4)_2(OH)_4(H_2O)_4$                     | Rd | 1922      | Sweden                | <i>Geologiska Föreningens i Stockholm Förhandlingar</i> <b>44</b> (1922), 773        | <i>American Mineralogist</i> <b>74</b> (1989), 256                                        |
| Aksaite         | $MgB_6O_7(OH)_6(H_2O)_2$                                | A  | 1967 s.p. | Kazakhstan            | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>91</b> (1962), 447     | <i>American Mineralogist</i> <b>56</b> (1971), 1553                                       |
| Aktashite       | $Cu_6Hg_3As_4S_{12}$                                    | Rd | 2008 s.p. | Russia                | Problems of the metallogeny of mercury. Nauka, Moscow (1968), 111                    | <i>Periodico di Mineralogia</i> <b>83</b> (2014), 1                                       |
| Alabandite      | $MnS$                                                   | G  | 1832      | Romania / Turkey      | Traité de Minéralogie, Vol. 4, 2nd ed. Bachelier, Paris (1822), 268                  | <i>Mineralogical Magazine</i> <b>67</b> (2003), 95                                        |
| Alacránite      | $As_8S_9$                                               | Rn | 1985-033  | Russia                | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>115</b> (1986), 360    | <i>European Journal of Mineralogy</i> <b>36</b> (2024), 615                               |

|                       |                                                                                                                                                                                                                                        |    |           |                |                                                                                                                                        |                                                                                       |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----------|----------------|----------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Alamosite             | PbSiO <sub>3</sub>                                                                                                                                                                                                                     | G  | 1909      | Mexico         | <i>American Journal of Science</i> <b>27</b> (1909), 399                                                                               | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>133(5)</b> (2004), 70 |
| Alarsite              | Al(AsO <sub>4</sub> )                                                                                                                                                                                                                  | A  | 1993-003  | Russia         | <i>Doklady Akademii Nauk SSSR</i> <b>338</b> (1994), 501                                                                               | <i>Zeitschrift für Kristallographie</i> <b>194</b> (1991), 291                        |
| Albertiniite          | Fe <sup>2+</sup> (SO <sub>3</sub> )(H <sub>2</sub> O) <sub>3</sub>                                                                                                                                                                     | A  | 2015-004  | Italy          | <i>Mineralogical Magazine</i> <b>80</b> (2016), 985                                                                                    |                                                                                       |
| Albite                | Na(AlSi <sub>3</sub> O <sub>8</sub> )                                                                                                                                                                                                  | G  | 1815      | Sweden         | <i>Afhandlingar i Fysik, Kemi och Mineralogi</i> <b>4</b> (1815), 148                                                                  | <i>American Mineralogist</i> <b>90</b> (2005), 1115                                   |
| Albrechtschraufite    | MgCa <sub>4</sub> F <sub>2</sub> [UO <sub>2</sub> (CO <sub>3</sub> ) <sub>3</sub> ] <sub>2</sub> (H <sub>2</sub> O) <sub>13</sub> ·5H <sub>2</sub> O                                                                                   | A  | 1983-078  | Czech Republic | <i>Mineralogy and Petrology</i> <b>107</b> (2013), 179                                                                                 |                                                                                       |
| Alburnite             | Ag <sub>8</sub> GeTe <sub>2</sub> S <sub>4</sub>                                                                                                                                                                                       | A  | 2012-073  | Romania        | <i>American Mineralogist</i> <b>99</b> (2014), 57                                                                                      |                                                                                       |
| Alcantarillaite       | [Fe <sup>3+</sup> <sub>0.5</sub> □ <sub>0.5</sub> (H <sub>2</sub> O) <sub>4</sub> ][CaAs <sup>3+</sup> <sub>2</sub> (Fe <sup>3+</sup> <sub>2.5</sub> W <sup>6+</sup> <sub>0.5</sub> )(AsO <sub>4</sub> ) <sub>2</sub> O <sub>7</sub> ] | A  | 2019-072  | Spain          | <i>Mineralogical Magazine</i> <b>84</b> (2020), 412                                                                                    |                                                                                       |
| Alcaparrosaite        | K <sub>3</sub> Ti <sup>4+</sup> Fe <sup>3+</sup> (SO <sub>4</sub> ) <sub>4</sub> O(H <sub>2</sub> O) <sub>2</sub>                                                                                                                      | A  | 2011-024  | Chile          | <i>Mineralogical Magazine</i> <b>76</b> (2012), 851                                                                                    |                                                                                       |
| Aldermanite           | [Mg(H <sub>2</sub> O) <sub>6</sub> ][Na(H <sub>2</sub> O) <sub>2</sub> Al <sub>3</sub> (PO <sub>4</sub> ) <sub>2</sub> (OH) <sub>6</sub> ]·H <sub>2</sub> O                                                                            | Rd | 2021 s.p. | Australia      | <i>Mineralogical Magazine</i> <b>44</b> (1981), 59                                                                                     | <i>Mineralogical Magazine</i> <b>85</b> (2021), 348                                   |
| Aldomarinoite         | Sr <sub>2</sub> Mn <sup>3+</sup> (AsO <sub>4</sub> ) <sub>2</sub> (OH)                                                                                                                                                                 | A  | 2021-054  | Italy          | <i>Mineralogical Magazine</i> <b>86</b> (2022), 447                                                                                    |                                                                                       |
| Aldridgeite           | CdCu <sub>4</sub> (SO <sub>4</sub> ) <sub>2</sub> (OH) <sub>6</sub> (H <sub>2</sub> O) <sub>3</sub>                                                                                                                                    | A  | 2010-029  | Australia      | <i>Australian Journal of Mineralogy</i> <b>17</b> (2015), 67                                                                           |                                                                                       |
| Aleksandrovite        | KLi <sub>3</sub> Ca <sub>7</sub> Sn <sub>2</sub> (SiO <sub>3</sub> ) <sub>12</sub> F <sub>2</sub>                                                                                                                                      | A  | 2009-004  | Tajikistan     | <i>New Data on Minerals</i> <b>45</b> (2010), 5                                                                                        |                                                                                       |
| Aleksite              | PbBi <sub>2</sub> Te <sub>2</sub> S <sub>2</sub>                                                                                                                                                                                       | A  | 1977-038  | Russia         | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>107</b> (1978), 315                                                      | <i>Acta Crystallographica</i> <b>B79</b> (2023), 482                                  |
| Aleutite              | [Cu <sub>5</sub> O <sub>2</sub> ](AsO <sub>4</sub> )(VO <sub>4</sub> )·(Cu <sub>0.5</sub> □ <sub>0.5</sub> )Cl                                                                                                                         | A  | 2018-014  | Russia         | <i>Mineralogical Magazine</i> <b>83</b> (2019), 847                                                                                    |                                                                                       |
| Alexearlite           | Hg <sub>3</sub> (MoO <sub>4</sub> )S <sub>2</sub>                                                                                                                                                                                      | A  | 2024-039  | USA            | CNMNC Newsletter 81 - <i>Mineralogical Magazine</i> <b>88</b> (2024), 632; <i>European Journal of Mineralogy</i> <b>36</b> (2024), 917 |                                                                                       |
| Alexkhomyakovite      | K <sub>6</sub> (Ca <sub>2</sub> Na)(CO <sub>3</sub> ) <sub>5</sub> Cl(H <sub>2</sub> O) <sub>6</sub>                                                                                                                                   | A  | 2015-013  | Russia         | <i>European Journal of Mineralogy</i> <b>31</b> (2019), 135                                                                            |                                                                                       |
| Alexkuznetsovite-(Ce) | Ce <sub>2</sub> Mn(CO <sub>3</sub> )(Si <sub>2</sub> O <sub>7</sub> )                                                                                                                                                                  | A  | 2019-118  | Russia         | <i>Mineralogical Magazine</i> <b>85</b> (2021), 772                                                                                    |                                                                                       |
| Alexkuznetsovite-(La) | La <sub>2</sub> Mn(CO <sub>3</sub> )(Si <sub>2</sub> O <sub>7</sub> )                                                                                                                                                                  | A  | 2019-081  | Russia         | <i>Mineralogical Magazine</i> <b>85</b> (2021), 772                                                                                    |                                                                                       |
| Alexshubnikovite      | Ca <sub>2</sub> Cu <sub>9</sub> (AsO <sub>4</sub> ) <sub>4</sub> (OH) <sub>9</sub> Cl(H <sub>2</sub> O) <sub>8</sub> ·2H <sub>2</sub> O                                                                                                | A  | 2025-100  | Russia         | CNMNC Newsletter 90 - <i>Mineralogical Magazine</i> <b>90</b> (2026), xxx; <i>European Journal of Mineralogy</i> <b>38</b> (2026), 231 |                                                                                       |
| Alflarsenite          | NaCa <sub>2</sub> Be <sub>3</sub> Si <sub>4</sub> O <sub>13</sub> (OH)(H <sub>2</sub> O) <sub>2</sub>                                                                                                                                  | A  | 2008-023  | Norway         | <i>European Journal of Mineralogy</i> <b>21</b> (2009), 893                                                                            | <i>Canadian Mineralogist</i> <b>48</b> (2010), 255                                    |
| Alforsite             | Ba <sub>5</sub> (PO <sub>4</sub> ) <sub>3</sub> Cl                                                                                                                                                                                     | A  | 1980-039  | USA            | <i>American Mineralogist</i> <b>66</b> (1981), 1050                                                                                    | <i>Acta Crystallographica</i> <b>B35</b> (1979), 2382                                 |
| Alfredcasparite       | Sr <sub>2</sub> TiO(Si <sub>2</sub> O <sub>7</sub> )                                                                                                                                                                                   | A  | 2023-024  | Germany        | <i>Journal of Geosciences</i> <b>69</b> (2024), 161                                                                                    |                                                                                       |
| Alfredpetrovite       | Al <sub>2</sub> (Se <sup>4+</sup> O <sub>3</sub> ) <sub>3</sub> (H <sub>2</sub> O) <sub>6</sub>                                                                                                                                        | A  | 2015-026  | Bolivia        | <i>European Journal of Mineralogy</i> <b>28</b> (2016), 479                                                                            |                                                                                       |
| Alfredstelnzerite     | Ca <sub>4</sub> (H <sub>2</sub> O) <sub>4</sub> [B <sub>4</sub> O <sub>4</sub> (OH) <sub>6</sub> ] <sub>4</sub> (H <sub>2</sub> O) <sub>15</sub>                                                                                       | A  | 2007-050  | Argentina      | <i>Canadian Mineralogist</i> <b>48</b> (2010), 123                                                                                     | <i>Canadian Mineralogist</i> <b>48</b> (2010), 129                                    |
| Algodonite            | Cu <sub>1-x</sub> As <sub>x</sub> (x ≈ 0.15)                                                                                                                                                                                           | G  | 1857      | Chile          | <i>Quarterly Journal of the Chemical Society</i> <b>10</b> (1857), 289                                                                 | <i>Canadian Mineralogist</i> <b>28</b> (1990), 751                                    |
| Alicewilsonite-(YCe)  | Na <sub>2</sub> Sr <sub>2</sub> YCe(CO <sub>3</sub> ) <sub>6</sub> (H <sub>2</sub> O) <sub>3</sub>                                                                                                                                     | A  | 2020-055  | Canada         | <i>European Journal of Mineralogy</i> <b>35</b> (2023), 143                                                                            |                                                                                       |
| Alicewilsonite-(YLa)  | Na <sub>2</sub> Sr <sub>2</sub> YLa(CO <sub>3</sub> ) <sub>6</sub> (H <sub>2</sub> O) <sub>3</sub>                                                                                                                                     | A  | 2021-047  | Australia      | <i>European Journal of Mineralogy</i> <b>36</b> (2024), 301                                                                            |                                                                                       |

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| Aliettite          | $\text{Ca}_{0.2}\text{Mg}_6(\text{Si},\text{Al})_8\text{O}_{20}(\text{OH})_4 \cdot 4\text{H}_2\text{O}$                                                                                                         | Rd | 1968 ?    | Italy               | <i>Proceedings of the International Clay Conference, Tokyo 1</i> (1969), 233                     | <i>Clay Minerals</i> <b>22</b> (1987), 187                     |
| Allabogdanite      | $(\text{Fe},\text{Ni})_2\text{P}$                                                                                                                                                                               | A  | 2000-038  | Russia (meteorite)  | <i>American Mineralogist</i> <b>87</b> (2002), 1245                                              | <i>American Mineralogist</i> <b>106</b> (2021), 944            |
| Allactite          | $\text{Mn}^{2+}_7(\text{AsO}_4)_2(\text{OH})_8$                                                                                                                                                                 | A  | 1980 s.p. | Sweden              | <i>Geologiska Föreningens i Stockholm Förhandlingar</i> <b>7</b> (1884), 109                     | <i>Mineralogical Magazine</i> <b>80</b> (2016), 719            |
| Allanite-(Ce)      | $\text{CaCe}(\text{Al}_2\text{Fe}^{2+})(\text{Si}_2\text{O}_7)(\text{SiO}_4)\text{O}(\text{OH})$                                                                                                                | Rn | 1987 s.p. | Denmark (Greenland) | <i>Transactions of the Royal Society of Edinburgh</i> <b>6</b> (1812), 371                       | <i>Physics and Chemistry of Minerals</i> <b>46</b> (2019), 783 |
| Allanite-(La)      | $\text{CaLa}(\text{Al}_2\text{Fe}^{2+})(\text{Si}_2\text{O}_7)(\text{SiO}_4)\text{O}(\text{OH})$                                                                                                                | A  | 2003-065  | Italy               | <i>Canadian Mineralogist</i> <b>44</b> (2006), 63                                                |                                                                |
| Allanite-(Nd)      | $\text{CaNd}(\text{Al}_2\text{Fe}^{2+})(\text{Si}_2\text{O}_7)(\text{SiO}_4)\text{O}(\text{OH})$                                                                                                                | A  | 2010-060  | Sweden              | <i>American Mineralogist</i> <b>97</b> (2012), 983                                               |                                                                |
| Allanite-(Sm)      | $\text{CaSm}(\text{Al}_2\text{Fe}^{2+})(\text{Si}_2\text{O}_7)(\text{SiO}_4)\text{O}(\text{OH})$                                                                                                                | A  | 2023-114  | Poland              | <i>American Mineralogist</i> <b>110</b> (2025), 808                                              |                                                                |
| Allanite-(Y)       | $\text{CaY}(\text{Al}_2\text{Fe}^{2+})(\text{Si}_2\text{O}_7)(\text{SiO}_4)\text{O}(\text{OH})$                                                                                                                 | Rn | 1966 s.p. | South Africa        | <i>Union of South Africa Department of Mines, Geological Survey Memoir</i> <b>43</b> (1949), 45  | <i>Mineralogical Magazine</i> <b>89</b> (2025), 172            |
| Allanpringite      | $\text{Fe}^{3+}_3(\text{PO}_4)_2(\text{OH})_3(\text{H}_2\text{O})_4 \cdot \text{H}_2\text{O}$                                                                                                                   | A  | 2004-050  | Germany             | <i>European Journal of Mineralogy</i> <b>18</b> (2006), 793                                      |                                                                |
| Allantoin          | $\text{C}_4\text{H}_6\text{N}_4\text{O}_3$                                                                                                                                                                      | A  | 2020-004a | USA                 | <i>Canadian Mineralogist</i> <b>59</b> (2021), 603                                               |                                                                |
| Allargentum        | $\text{Ag}_{1-x}\text{Sb}_x$ ( $x \approx 0.09\text{-}0.16$ )                                                                                                                                                   | Rd | 1970 s.p. | Canada              | <i>Fortschritte der Mineralogie</i> <b>28</b> (1949), 69                                         | <i>Canadian Mineralogist</i> <b>10</b> (1970), 163             |
| Alleganyite        | $\text{Mn}^{2+}_5(\text{SiO}_4)_2(\text{OH})_2$                                                                                                                                                                 | G  | 1932      | USA                 | <i>American Mineralogist</i> <b>17</b> (1932), 1                                                 | <i>American Mineralogist</i> <b>70</b> (1985), 182             |
| Allendeite         | $\text{Sc}_4\text{Zr}_3\text{O}_{12}$                                                                                                                                                                           | A  | 2007-027  | Mexico (meteorite)  | <i>American Mineralogist</i> <b>99</b> (2014), 654                                               |                                                                |
| Allochalcoseelite  | $\text{Cu}^{1+}\text{Cu}^{2+}_5\text{PbO}_2(\text{SeO}_3)_2\text{Cl}_5$                                                                                                                                         | A  | 2004-025  | Russia              | <i>Zapiski Rossiyskogo Mineralogicheskogo Obshchestva</i> <b>134(3)</b> (2005), 70               | <i>Canadian Mineralogist</i> <b>44</b> (2006), 507             |
| Alloclasite        | $\text{CoAsS}$                                                                                                                                                                                                  | G  | 1866      | Romania             | <i>Sitzungsberichte der Kaiserlichen Akademie der Wissenschaften, Wien</i> <b>53</b> (1866), 220 | <i>Canadian Mineralogist</i> <b>14</b> (1976), 561             |
| Allophane          | $\text{Al}_2\text{O}_3(\text{SiO}_2)_{1.3\text{-}2.0} \cdot 2.5\text{-}3.0\text{H}_2\text{O}$                                                                                                                   | G  | 1816      | Germany             | <i>Göttingische Gelehrte Anzeigen</i> <b>2</b> (1816), 1249                                      | <i>Icarus</i> <b>382</b> (2022), 115057                        |
| Alloriite          | $(\text{Na},\text{K},\text{Ca})_{24}(\text{Na},\text{Ca})_4\text{Ca}_4(\text{Si},\text{Al})_{48}\text{O}_{96}(\text{SO}_4)_4(\text{SO}_3,\text{CO}_3)_2(\text{OH},\text{Cl})_2(\text{H}_2\text{O},\text{OH})_4$ | A  | 2006-020  | Italy               | <i>Zapiski Rossiyskogo Mineralogicheskogo Obshchestva</i> <b>136(1)</b> (2007), 82               | <i>Doklady Akademii Nauk</i> <b>415(2)</b> (2007), 242         |
| Alluaivite         | $\text{Na}_{19}(\text{Ca},\text{Mn}^{2+})_6(\text{Ti},\text{Nb})_3\text{Si}_{26}\text{O}_{74}\text{Cl} \cdot 2\text{H}_2\text{O}$                                                                               | A  | 1988-052  | Russia              | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>119</b> (1990), 117                | <i>Doklady Akademii Nauk SSSR</i> <b>312</b> (1990), 1379      |
| Alluaudite         | $\square\text{NaMnFe}^{3+}_2(\text{PO}_4)_3$                                                                                                                                                                    | Rd | 1979 s.p. | France              | <i>Annales des Mines, Ser IV</i> <b>13</b> (1848), 341                                           | <i>Mineralogical Magazine</i> <b>43</b> (1979), 227            |
| Almagreraite       | $\text{CuZnMn}^{4+}_3\text{O}_8$                                                                                                                                                                                | A  | 2025-025  | Spain               | <i>Mineralogical Magazine</i> <b>90</b> (2026), 608                                              |                                                                |
| Almandine          | $\text{Fe}^{2+}_3\text{Al}_2(\text{SiO}_4)_3$                                                                                                                                                                   | G  | 1546 ?    | Turkey              | original paper?                                                                                  | <i>American Mineralogist</i> <b>56</b> (1971), 791             |
| Almarudite         | $\text{K}(\square,\text{Na})_2(\text{Mn},\text{Fe},\text{Mg})_2[(\text{Be},\text{Al})_3\text{Si}_{12}]\text{O}_{30}$                                                                                            | A  | 2002-048  | Germany             | <i>Neues Jahrbuch für Mineralogie Abhandlungen</i> <b>179</b> (2004), 265                        |                                                                |
| Almeidaite         | $\text{PbZn}_2(\text{Mn},\text{Y})(\text{Ti},\text{Fe}^{3+})_{18}\text{O}_{36}(\text{OH},\text{O})_2$                                                                                                           | A  | 2013-020  | Brazil              | <i>Mineralogical Magazine</i> <b>79</b> (2015), 269                                              |                                                                |
| Alnaperbøeite-(Ce) | $(\text{CaCe}_{2.5}\text{Na}_{0.5})(\text{Al}_4)(\text{Si}_2\text{O}_7)(\text{SiO}_4)_3\text{O}(\text{OH})_2$                                                                                                   | A  | 2012-054  | Norway              | <i>American Mineralogist</i> <b>99</b> (2014), 157                                               |                                                                |
| Alpeite            | $\text{Ca}_4\text{Mn}^{3+}_2\text{Al}_2(\text{Mn}^{3+}\text{Mg})(\text{VO}_4)(\text{SiO}_4)_2(\text{Si}_3\text{O}_{10})(\text{OH})_6$                                                                           | A  | 2016-072  | Italy               | <i>European Journal of Mineralogy</i> <b>29</b> (2017), 907                                      |                                                                |
| Alpersite          | $\text{Mg}(\text{SO}_4)(\text{H}_2\text{O})_6 \cdot \text{H}_2\text{O}$                                                                                                                                         | A  | 2003-040  | USA                 | <i>American Mineralogist</i> <b>91</b> (2006), 261                                               |                                                                |

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| Alsakharovite-Zn        | $\text{NaSrKZn(Ti,Nb)}_4(\text{Si}_4\text{O}_{12})_2(\text{O,OH})_4 \cdot 7\text{H}_2\text{O}$                                       | A  | 2002-003  | Russia                           | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>132(1)</b> (2003), 52                                               | <i>Doklady Chemistry</i> <b>383</b> (2002), 110                                     |
| Alstonite               | $\text{BaCa}(\text{CO}_3)_2$                                                                                                         | G  | 1841      | United Kingdom                   | Vollständige Handbuch der Mineralogie Vol. 2 (1841), 255                                                                            | <i>Mineralogical Magazine</i> <b>84</b> (2020), 699                                 |
| Altaite                 | PbTe                                                                                                                                 | G  | 1845      | Kazakhstan                       | Handbuch der Bestimmenden Mineralogie. Braumüller and Seidel, Wien (1845), 556                                                      | <i>Canadian Mineralogist</i> <b>54</b> (2016), 1493                                 |
| Alterite                | $\text{Zn}_2\text{Fe}^{3+}_4(\text{SO}_4)_4(\text{C}_2\text{O}_4)_2(\text{OH})_4(\text{H}_2\text{O})_{12} \cdot 5\text{H}_2\text{O}$ | A  | 2018-070  | USA                              | <i>Canadian Journal of Mineralogy and Petrology</i> <b>62</b> (2024), 353                                                           |                                                                                     |
| Althausite              | $\text{Mg}_4(\text{PO}_4)_2(\text{OH,O})(\text{F},\square)$                                                                          | A  | 1974-050  | Norway                           | <i>Lithos</i> <b>8</b> (1975), 215                                                                                                  | <i>American Mineralogist</i> <b>65</b> (1980), 488                                  |
| Althupite               | $\text{AlTh}(\text{UO}_2)_7(\text{PO}_4)_4\text{O}_2(\text{OH})_5(\text{H}_2\text{O})_8 \cdot 7\text{H}_2\text{O}$                   | A  | 1986-003  | Democratic Republic of the Congo | <i>Bulletin de Minéralogie</i> <b>110</b> (1987), 65                                                                                |                                                                                     |
| Altisite                | $\text{Na}_3\text{K}_6\text{Ti}_2\text{Al}_2\text{Si}_8\text{O}_{26}\text{Cl}_3$                                                     | A  | 1993-055  | Russia                           | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>123(6)</b> (1994), 82                                               | <i>European Journal of Mineralogy</i> <b>7</b> (1995), 537                          |
| Alum-(K)                | $\text{KAl}(\text{SO}_4)_2(\text{H}_2\text{O})_{12}$                                                                                 | Rn | 2007 s.p. | Italy ?                          | The System of Mineralogy, 7th ed., vol. II. Wiley, New York (1951), 472                                                             | <i>American Mineralogist</i> <b>105</b> (2020), 1088                                |
| Alum-(Na)               | $\text{NaAl}(\text{SO}_4)_2(\text{H}_2\text{O})_{12}$                                                                                | Rn | 2007 s.p. | unknown                          | The System of Mineralogy, 7th ed., vol. II. Wiley, New York (1951), 474                                                             | <i>Acta Crystallographica</i> <b>22</b> (1967), 182                                 |
| Aluminite               | $\text{Al}_2(\text{SO}_4)(\text{OH})_4(\text{H}_2\text{O})_3 \cdot 4\text{H}_2\text{O}$                                              | G  | 1805      | Germany                          | Beiträge zu einer allgemeinen Einleitung in das Studium der Mineralogie. Berlage des Landes-Industrie-Comptoirs, Weimar (1805), 262 | <i>Acta Crystallographica</i> <b>B34</b> (1978), 2407                               |
| Aluminium               | Al                                                                                                                                   | A  | 1980-085a | Russia                           | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>113</b> (1984), 210                                                   | <i>American Mineralogist</i> <b>94</b> (2009), 1283                                 |
| Aluminoceladonite       | $\text{K}(\text{Mg,Fe}^{2+})\text{Al}(\text{Si}_4\text{O}_{10})(\text{OH})_2$                                                        | A  | 1998 s.p. | Austria / Poland                 | <i>Canadian Mineralogist</i> <b>36</b> (1998), 905                                                                                  | <i>Mineralogy and Petrology</i> <b>115</b> (2021), 431                              |
| Aluminocerite-(CeCa)    | $(\text{Ce}_6\text{Ca}_3)\square\text{Al}(\text{SiO}_4)_3(\text{SiO}_3\text{OH})_4(\text{OH})_3$                                     | Rd | 2023 s.p. | Italy                            | <i>American Mineralogist</i> <b>94</b> (2009), 487                                                                                  |                                                                                     |
| Aluminocopiapite        | $\text{AlFe}^{3+}_4(\text{SO}_4)_6\text{O}(\text{OH})(\text{H}_2\text{O})_{14} \cdot 6\text{H}_2\text{O}$                            | G  | 1947      | USA                              | <i>University of Toronto Studies, Geological Series</i> <b>51</b> (1947), 21                                                        | <i>Canadian Mineralogist</i> <b>23</b> (1985), 53                                   |
| Aluminocoquimbite       | $\text{Al}_2\text{Fe}^{3+}_2(\text{SO}_4)_6(\text{H}_2\text{O})_{12} \cdot 6\text{H}_2\text{O}$                                      | A  | 2009-095  | Italy                            | <i>Canadian Mineralogist</i> <b>48</b> (2010), 1465                                                                                 | <i>Canadian Mineralogist</i> <b>48</b> (2010), 323                                  |
| Aluminomagnesiohulsite  | $\text{Mg}_2\text{AlO}_2(\text{BO}_3)$                                                                                               | Rn | 2002-038  | Russia                           | <i>European Journal of Mineralogy</i> <b>16</b> (2004), 151                                                                         |                                                                                     |
| Alumino-oxy-rossmanite  | $\square\text{Al}_3\text{Al}_6(\text{Si}_5\text{AlO}_{18})(\text{BO}_3)_3(\text{OH})_3\text{O}$                                      | A  | 2020-008b | Austria                          | <i>American Mineralogist</i> <b>107</b> (2022), 157                                                                                 |                                                                                     |
| Aluminopyracmonite      | $(\text{NH}_4)_3\text{Al}(\text{SO}_4)_3$                                                                                            | A  | 2012-075  | Italy                            | <i>Mineralogical Magazine</i> <b>77</b> (2013), 443                                                                                 |                                                                                     |
| Aluminosugillite        | $\text{KNa}_2\text{Al}_2\text{Li}_3\text{Si}_{12}\text{O}_{30}$                                                                      | A  | 2018-142  | Italy                            | <i>European Journal of Mineralogy</i> <b>32</b> (2020), 57                                                                          | <i>Journal of Mineralogical and Petrological Sciences</i> <b>119</b> (2024), 240509 |
| Aluminotapingite-(CeCa) | $(\text{Ce}_6\text{Ca}_3)\text{Al}(\text{SiO}_4)_3[\text{SiO}_3(\text{OH})]_4\text{F}_3$                                             | A  | 2022-126  | Italy                            | <i>Mineralogical Magazine</i> <b>87</b> (2023), 741                                                                                 |                                                                                     |
| Alumoåkermanite         | $(\text{Ca,Na})_2(\text{Al,Mg,Fe}^{2+})(\text{Si}_2\text{O}_7)$                                                                      | A  | 2008-049  | Tanzania                         | <i>Mineralogical Magazine</i> <b>73</b> (2009), 373                                                                                 |                                                                                     |
| Alumoedtolite           | $\text{K}_2\text{NaCu}_5\text{AlO}_2(\text{AsO}_4)_4$                                                                                | A  | 2017-020  | Russia                           | <i>Mineralogical Magazine</i> <b>83</b> (2019), 485                                                                                 |                                                                                     |
| Alumohydrocalcite       | $\text{CaAl}_2(\text{CO}_3)_2(\text{OH})_4(\text{H}_2\text{O})_3 \cdot \text{H}_2\text{O}$                                           | A  | 1980 s.p. | Russia                           | <i>Zapiski Rossiyskogo Mineralogicheskogo Obshchestva</i> <b>55</b> (1926), 243                                                     | <i>American Mineralogist</i> <b>100</b> (2015), 110                                 |

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| Alumoklyuchevskite | $K_3Cu^{2+}_3AlO_2(SO_4)_4$                                                            | A  | 1993-004  | Russia          | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>124(1)</b> (1995), 95                                                   | <i>European Journal of Mineralogy</i> <b>29</b> (2017), 499   |
| Alumolukrahnite    | $CaCu^{2+}Al(AsO_4)_2(OH)(H_2O)$                                                       | A  | 2022-059  | Chile           | <i>Mineralogical Magazine</i> <b>87</b> (2023), 465                                                                                     |                                                               |
| Alumotantite       | $AlTaO_4$                                                                              | A  | 1980-025  | Russia          | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>110</b> (1981), 338                                                       | <i>Canadian Mineralogist</i> <b>30</b> (1992), 653            |
| Alumovesuvianite   | $Ca_{19}Al(Al_{10}Mg_2)(SiO_4)_{10}(Si_2O_7)_4O(OH)_9$                                 | A  | 2016-014  | Canada          | <i>Mineralogy and Petrology</i> <b>111</b> (2017), 833                                                                                  |                                                               |
| Alunite            | $KAl_3(SO_4)_2(OH)_6$                                                                  | Rd | 1987 s.p. | Italy / Ukraine | Traité Élémentaire de Minéralogie. Verdière, Paris (1824), 449                                                                          | <i>Mineralogical Magazine</i> <b>76</b> (2012), 313           |
| Alunogen           | $Al_2(SO_4)_3(H_2O)_{12} \cdot 5H_2O$                                                  | G  | 1832      | unknown         | Traité Élémentaire de Minéralogie, 2nd ed. Verdière, Paris (1832), 488                                                                  | <i>Crystals</i> <b>13</b> (2023), 963                         |
| Alvanite           | $ZnAl_4(V^{5+}O_3)_2(OH)_{12}(H_2O)_2$                                                 | A  | 1962 s.p. | Kazakhstan      | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>88</b> (1959), 157                                                        | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1990), 385 |
| Alvesite           | $NaKZrSi_6O_{15}(H_2O)_2$                                                              | A  | 2023-069  | Portugal        | CNMNC Newsletter 76 - <i>Mineralogical Magazine</i> <b>88</b> (2024), 105; <i>European Journal of Mineralogy</i> <b>35</b> (2023), 1073 |                                                               |
| Alwilkinsite-(Y)   | $Y(UO_2)_3(SO_4)_2O(OH)_3(H_2O)_7 \cdot 7H_2O$                                         | A  | 2015-097  | USA             | <i>Mineralogical Magazine</i> <b>81</b> (2017), 895                                                                                     |                                                               |
| Amableite-(Ce)     | $Na_{15}[(Ce_{1.5}Na_{1.5})Mn_3]Mn_2Zr_3\Box Si[Si_{24}O_{69}(OH)_3](OH)_2 \cdot H_2O$ | A  | 2023-075  | Canada          | <i>Mineralogical Magazine</i> <b>88</b> (2024), 369                                                                                     | <i>Crystallography Reports</i> <b>69</b> (2024), 660          |
| Amakinite          | $Fe(OH)_2$                                                                             | A  | 1967 s.p. | Russia          | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>91</b> (1962), 72                                                         | <i>Journal of Molecular Structure</i> <b>328</b> (1994), 121  |
| Amamoorite         | $CaMn^{2+}_2Mn^{3+}(Si_2O_7)O(OH)$                                                     | A  | 2018-105  | Australia       | <i>Australian Journal of Mineralogy</i> <b>20</b> (2019), 7                                                                             |                                                               |
| Amarantite         | $Fe^{3+}_2O(SO_4)_2(H_2O)_4 \cdot 3H_2O$                                               | G  | 1888      | Chile           | <i>Vorkommenisse von Ehrenfriedersdorf, Mineralogische und Petrographische Mittheilungen</i> <b>9</b> (1888), 397                       | <i>European Journal of Mineralogy</i> <b>30</b> (2018), 259   |
| Amarillite         | $NaFe^{3+}(SO_4)_2(H_2O)_6$                                                            | G  | 1933      | Chile           | <i>Comptes Rendus de l'Académie des Sciences de Paris</i> <b>197</b> (1933), 1132                                                       | <i>European Journal of Mineralogy</i> <b>28</b> (2016), 953   |
| Amaterasuite       | $Sr_4Ti_6Si_4O_{23}(OH)Cl$                                                             | A  | 2024-056  | Japan           | <i>Journal of Mineralogical and Petrological Sciences</i> <b>119</b> (2024), 250420                                                     |                                                               |
| Amblygonite        | $LiAl(PO_4)F$                                                                          | G  | 1818      | Germany         | Handbuch der Mineralogie, Vol. 4b. Craz & Gerlach, Freiberg (1818), 159                                                                 | <i>American Mineralogist</i> <b>88</b> (2003), 195            |
| Ambrinoite         | $[K, (NH_4)]_2(As, Sb)_6(Sb, As)_2S_{13}(H_2O)$                                        | A  | 2009-071  | Italy           | <i>American Mineralogist</i> <b>96</b> (2011), 878                                                                                      |                                                               |
| Ameghinite         | $NaB_3O_3(OH)_4$                                                                       | A  | 1966-034  | Argentina       | <i>American Mineralogist</i> <b>52</b> (1967), 935                                                                                      | <i>American Mineralogist</i> <b>60</b> (1975), 879            |
| Amesite            | $Mg_2Al(AlSiO_5)(OH)_4$                                                                | G  | 1876      | USA             | Catalogue of minerals found within about 75 miles of Amherst College. Privately printed (1876), 4                                       | <i>American Mineralogist</i> <b>76</b> (1991), 647            |
| Amgaite            | $Tl^{3+}_2Te^{6+}O_6$                                                                  | A  | 2021-104  | Russia          | <i>Minerals</i> <b>12</b> (2022), 1064                                                                                                  |                                                               |
| Amicite            | $K_2Na_2(Al_4Si_4O_{16}) \cdot 5H_2O$                                                  | A  | 1979-011  | Germany         | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1979), 481                                                                           | <i>Mineralogical Magazine</i> <b>87</b> (2023), 443           |
| Aminoffite         | $Ca_3(BeOH)_2Si_3O_{10}$                                                               | G  | 1937      | Sweden          | <i>Geologiska Föreningens i Stockholm Förhandlingar</i> <b>59</b> (1937), 290                                                           | <i>Canadian Mineralogist</i> <b>40</b> (2002), 915            |
| Ammineite          | $CuCl_2 \cdot 2NH_3$                                                                   | A  | 2008-032  | Chile           | <i>Canadian Mineralogist</i> <b>48</b> (2010), 1359                                                                                     |                                                               |
| Ammonioalunite     | $(NH_4)Al_3(SO_4)_2(OH)_6$                                                             | A  | 1986-037  | USA             | <i>American Mineralogist</i> <b>73</b> (1988), 145                                                                                      |                                                               |

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| Ammonioiborite          | $(\text{NH}_4)_3\text{B}_{15}\text{O}_{20}(\text{OH})_8(\text{H}_2\text{O})_4$                                        | G  | 1933      | Italy                            | <i>American Mineralogist</i> <b>18</b> (1933), 480                                                                                      | <i>Science</i> <b>171</b> (1971), 377                                            |
| Ammoniojarosite         | $(\text{NH}_4)\text{Fe}^{3+}_3(\text{SO}_4)_2(\text{OH})_6$                                                           | Rd | 1987 s.p. | USA                              | <i>American Mineralogist</i> <b>12</b> (1927), 424                                                                                      | <i>Mineralogical Magazine</i> <b>71</b> (2007), 427                              |
| Ammoniolasalite         | $[(\text{NH}_4)_2\text{Mg}_2(\text{H}_2\text{O})_{20}] \cdot [\text{V}_{10}\text{O}_{28}]$                            | A  | 2017-094  | USA                              | <i>Canadian Mineralogist</i> <b>56</b> (2018), 859                                                                                      |                                                                                  |
| Ammonioleucite          | $(\text{NH}_4)(\text{AlSi}_2\text{O}_6)$                                                                              | A  | 1984-015  | Japan                            | <i>American Mineralogist</i> <b>71</b> (1986), 1022                                                                                     | <i>Mineralogical Journal</i> <b>20</b> (1998), 105                               |
| Ammoniomagnesiovoltaite | $(\text{NH}_4)_2\text{Mg}_5\text{Fe}^{3+}_3\text{Al}(\text{SO}_4)_{12}(\text{H}_2\text{O})_{18}$                      | A  | 2009-040  | Hungary                          | <i>Canadian Mineralogist</i> <b>50</b> (2012), 65                                                                                       | <i>Symmetry</i> <b>15</b> (2023), 2126                                           |
| Ammoniomathesiusite     | $(\text{NH}_4)_5(\text{UO}_2)_4(\text{SO}_4)_4(\text{VO}_5)(\text{H}_2\text{O})_4$                                    | A  | 2017-077  | USA                              | <i>Mineralogical Magazine</i> <b>83</b> (2019), 115                                                                                     |                                                                                  |
| Ammoniotinsleyite       | $(\text{NH}_4)\text{Al}_2(\text{PO}_4)_2(\text{OH})(\text{H}_2\text{O})_2$                                            | A  | 2019-128  | Chile                            | <i>Mineralogical Magazine</i> <b>84</b> (2020), 705                                                                                     |                                                                                  |
| Ammoniovoltaite         | $(\text{NH}_4)_2\text{Fe}^{2+}_5\text{Fe}^{3+}_3\text{Al}(\text{SO}_4)_{12}(\text{H}_2\text{O})_{18}$                 | A  | 2017-022  | Russia                           | <i>Mineralogical Magazine</i> <b>82</b> (2018), 1057                                                                                    | <i>Minerals</i> <b>10</b> (2020), 781                                            |
| Ammoniozippeite         | $(\text{NH}_4)_2[(\text{UO}_2)_2(\text{SO}_4)_2](\text{H}_2\text{O})$                                                 | A  | 2017-073  | USA                              | <i>Canadian Mineralogist</i> <b>56</b> (2018), 235                                                                                      | <i>Bulletin Mineralogie Petrologie</i> <b>31</b> (2023), 1                       |
| Amoraite                | $\text{Ca}_{12}\text{Al}_6(\text{OH})_{36}(\text{CO}_3)_2(\text{SO}_3) \cdot 15\text{H}_2\text{O}$                    | A  | 2023-082  | Israel                           | CNMNC Newsletter 76 - <i>Mineralogical Magazine</i> <b>88</b> (2024), 105; <i>European Journal of Mineralogy</i> <b>35</b> (2023), 1073 |                                                                                  |
| Amstallite              | $\text{CaAl}[(\text{Al},\text{Si})_4\text{O}_8(\text{OH})_2](\text{OH})_2(\text{H}_2\text{O},\text{Cl})$              | A  | 1986-030  | Austria                          | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1987), 253                                                                           |                                                                                  |
| Amurselite              | $(\text{NH}_4)_2(\text{UO}_2)_5(\text{SeO}_3)_3\text{O}_2(\text{OH})_2(\text{H}_2\text{O}) \cdot 8\text{H}_2\text{O}$ | A  | 2024-062  | USA                              | <i>Canadian Journal of Mineralogy and Petrology</i> <b>63</b> (2025), 305                                                               |                                                                                  |
| Analcime                | $\text{Na}(\text{AlSi}_2\text{O}_6) \cdot \text{H}_2\text{O}$                                                         | A  | 1997 s.p. | Italy                            | <i>Journal des Mines</i> <b>5</b> (1797), 278                                                                                           | <i>Physics and Chemistry of Minerals</i> <b>45</b> (2018), 381                   |
| Anandite                | $\text{BaFe}^{2+}_3(\text{Si}_3\text{Fe}^{3+})\text{O}_{10}\text{S}(\text{OH})$                                       | A  | 1966-005  | Sri Lanka                        | <i>Mineralogical Magazine</i> <b>36</b> (1967), 1                                                                                       | <i>American Mineralogist</i> <b>94</b> (2009), 1144                              |
| Anapaite                | $\text{Ca}_2\text{Fe}^{2+}(\text{PO}_4)_2(\text{H}_2\text{O})_4$                                                      | G  | 1902      | Russia                           | <i>Sitzungsberichte der Königlich Preussischen Akademie der Wissenschaften</i> (1902), 18                                               | <i>Bulletin de Minéralogie</i> <b>102</b> (1979), 314                            |
| Anastasenkoite          | $\text{CaFe}^{2+}_2\text{P}_2\text{O}_7$                                                                              | A  | 2020-026  | Israel                           | CNMNC Newsletter 56 - <i>Mineralogical Magazine</i> <b>84</b> (2020), 623; <i>European Journal of Mineralogy</i> <b>32</b> (2020), 443  |                                                                                  |
| Anatase                 | $\text{TiO}_2$                                                                                                        | A  | 1962 s.p. | France                           | Traité de Minéralogie, Vol. 3. Chez Louis, Paris (1801), 129                                                                            | <i>Acta Crystallographica</i> <b>B47</b> (1991), 462                             |
| Anatolygurbanovite      | $\text{SrCa}_2\text{Si}_3\text{O}_9$                                                                                  | A  | 2024-086  | Russia                           | CNMNC Newsletter 84 - <i>Mineralogical Magazine</i> <b>89</b> (2025), 298; <i>European Journal of Mineralogy</i> <b>37</b> (2025), 249  |                                                                                  |
| Anatolyite              | $\text{Na}_6(\text{Ca},\text{Na})(\text{Mg},\text{Fe}^{3+})_3\text{Al}(\text{AsO}_4)_6$                               | A  | 2016-040  | Russia                           | <i>Mineralogical Magazine</i> <b>83</b> (2019), 633                                                                                     |                                                                                  |
| Ancylite-(Ce)           | $\text{CeSr}(\text{CO}_3)_2(\text{OH})(\text{H}_2\text{O})$                                                           | Rn | 1987 s.p. | Denmark (Greenland)              | <i>Meddelelser om Grønland</i> <b>24</b> (1901), 49                                                                                     | <i>Crystallography Reports</i> <b>47</b> (2002), 223                             |
| Ancylite-(La)           | $\text{LaSr}(\text{CO}_3)_2(\text{OH})(\text{H}_2\text{O})$                                                           | A  | 1995-053  | Russia                           | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>126(1)</b> (1997), 96                                                   | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (2001), 493                    |
| Andalusite              | $\text{Al}_2\text{SiO}_5$                                                                                             | G  | 1798      | Spain                            | <i>Journal de Physique, de Chimie, d'Histoire Naturelle et des Arts</i> <b>46</b> (1798), 386                                           | <i>American Mineralogist</i> <b>91</b> (2006), 319                               |
| Andersonite             | $\text{Na}_2\text{Ca}(\text{UO}_2)(\text{CO}_3)_3(\text{H}_2\text{O})_6$                                              | G  | 1951      | USA                              | <i>American Mineralogist</i> <b>36</b> (1951), 1                                                                                        | <i>Minerals</i> <b>8</b> (2018), 586                                             |
| Andradite               | $\text{Ca}_3\text{Fe}^{3+}_2(\text{SiO}_4)_3$                                                                         | G  | 1868      | Norway                           | A System of Mineralogy, 5th ed. Wiley, New York (1868), 268                                                                             | <i>Journal of Mineralogical and Petrological Sciences</i> <b>114</b> (2019), 111 |
| Andreadiniite           | $\text{CuHgAg}_7\text{Pb}_7\text{Sb}_{24}\text{S}_{48}$                                                               | A  | 2014-049  | Italy                            | <i>European Journal of Mineralogy</i> <b>30</b> (2018), 1021                                                                            |                                                                                  |
| Andrémeyerite           | $\text{BaFe}^{2+}_2(\text{Si}_2\text{O}_7)$                                                                           | Rn | 1972-005  | Democratic Republic of the Congo | <i>Bulletin of the Geological Society of Finland</i> <b>45</b> (1973), 1                                                                | <i>American Mineralogist</i> <b>73</b> (1988), 608                               |

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| Andreybulakhite        | $\text{Ni}(\text{C}_2\text{O}_4)(\text{H}_2\text{O})_2$                                                                                                              | A  | 2023-037  | Russia                  | <i>European Journal of Mineralogy</i> <b>37</b> (2025), 63                            |                                                                                    |
| Andreyivanovite        | $\text{FeCrP}$                                                                                                                                                       | A  | 2006-003  | Yemen (meteorite)       | <i>American Mineralogist</i> <b>93</b> (2008), 1295                                   | <i>American Mineralogist</i> <b>108</b> (2023), 1506                               |
| Andrianovite           | $\text{Na}_{12}(\text{K}, \text{Sr}, \text{Ce})_3\text{Ca}_6\text{Mn}_3\text{Zr}_3\text{Nb}(\text{Si}_{25}\text{O}_{73})(\text{O}, \text{H}_2\text{O}, \text{OH})_5$ | A  | 2007-008  | Russia                  | <i>Zapiski Rossiyskogo Mineralogicheskogo Obshchestva</i> <b>137(2)</b> (2008), 43    | <i>Doklady Chemistry</i> <b>403</b> (2005), 148                                    |
| Andrieslombaardite     | $\text{RhSbS}$                                                                                                                                                       | A  | 2022-076  | South Africa            | <i>South African Journal of Geology</i> <b>126</b> (2023), 151                        |                                                                                    |
| Anduoite               | $\text{RuAs}_2$                                                                                                                                                      | A  | ?         | China                   | <i>Kexue Tongbao</i> <b>15</b> (1979), 704                                            | <i>Canadian Mineralogist</i> <b>39</b> (2001), 591                                 |
| Andychristyite         | $\text{PbCu}^{2+}\text{Te}^{6+}\text{O}_5(\text{H}_2\text{O})$                                                                                                       | A  | 2015-024  | USA                     | <i>Mineralogical Magazine</i> <b>80</b> (2016), 1055                                  |                                                                                    |
| Andymcdonaldite        | $\text{Fe}_2\text{TeO}_6$                                                                                                                                            | A  | 2018-141  | USA                     | <i>Canadian Mineralogist</i> <b>58</b> (2020), 85                                     |                                                                                    |
| Andyrobertsite         | $\text{KCdCu}_5(\text{AsO}_4)_4[\text{As}(\text{OH})_2\text{O}_2](\text{H}_2\text{O})_2$                                                                             | A  | 1997-022  | Namibia                 | <i>Mineralogical Record</i> <b>30</b> (1999), 181                                     | <i>Canadian Mineralogist</i> <b>38</b> (2000), 817                                 |
| Angarfite              | $\text{NaFe}^{3+}_5(\text{PO}_4)_4(\text{OH})_4(\text{H}_2\text{O})_4$                                                                                               | A  | 2010-082  | Morocco                 | <i>Canadian Mineralogist</i> <b>50</b> (2012), 781                                    |                                                                                    |
| Angastonite            | $\text{CaMgAl}_2(\text{PO}_4)_2(\text{OH})_4 \cdot 7\text{H}_2\text{O}$                                                                                              | Rd | 2022 s.p. | Australia               | <i>Mineralogical Magazine</i> <b>72</b> (2008), 1011                                  | <i>European Journal of Mineralogy</i> <b>34</b> (2022), 215                        |
| Ángelaite              | $\text{Cu}_2\text{AgPbBiS}_4$                                                                                                                                        | Rn | 2003-064  | Argentina               | <i>Revista de la Asociación Geológica Argentina</i> <b>59</b> (2004), 787             | <i>Canadian Mineralogist</i> <b>48</b> (2010), 145                                 |
| Angelellite            | $\text{Fe}^{3+}_4\text{O}_3(\text{AsO}_4)_2$                                                                                                                         | A  | 1962 s.p. | Argentina               | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1959), 145                         | <i>Journal of the Chemical Society, Dalton Transactions</i> <b>20</b> (2000), 3663 |
| Anglesite              | $\text{Pb}(\text{SO}_4)$                                                                                                                                             | G  | 1832      | United Kingdom          | Traité Élémentaire de Minéralogie, 2nd ed. Verdière, Paris (1832), 459                | <i>Canadian Mineralogist</i> <b>36</b> (1998), 1053                                |
| Anhydrite              | $\text{Ca}(\text{SO}_4)$                                                                                                                                             | G  | 1804      | Austria                 | Handbuch der Mineralogie. Siegfried Leberecht Crusius, Leipzig (1804), 209            | <i>Canadian Mineralogist</i> <b>13</b> (1975), 289                                 |
| Anhydrokainite         | $\text{KMg}(\text{SO}_4)\text{Cl}$                                                                                                                                   | Q  | 1912      | Germany                 | <i>Zeitschrift für Physikalische Chemie</i> <b>80</b> (1912), 1                       | Dana's System of Mineralogy, 7th ed., Vol. 2. Wiley, New York (1951), 596          |
| Anilite                | $\text{Cu}_7\text{S}_4$                                                                                                                                              | A  | 1968-030  | Japan                   | <i>American Mineralogist</i> <b>54</b> (1969), 1256                                   | <i>Acta Crystallographica</i> <b>B26</b> (1970), 915                               |
| Ankerite               | $\text{CaFe}^{2+}(\text{CO}_3)_2$                                                                                                                                    | G  | 1825      | Austria                 | Treatise on Mineralogy, Vol. I. Archibald Constable, Edinburgh (1825), 411            | <i>European Journal of Mineralogy</i> <b>37</b> (2025), 577                        |
| Ankinovichite          | $\text{NiAl}_4(\text{V}^{5+}\text{O}_3)_2(\text{OH})_{12}(\text{H}_2\text{O})_2$                                                                                     | A  | 2002-063  | Kazakhstan / Kyrgyzstan | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>133(2)</b> (2004), 59 |                                                                                    |
| Annabergite            | $\text{Ni}_3(\text{AsO}_4)_2(\text{H}_2\text{O})_8$                                                                                                                  | G  | 1852      | Germany                 | An Elementary Introduction to Mineralogy. Longmans, London (1852), 503                | <i>European Journal of Mineralogy</i> <b>8</b> (1996), 187                         |
| Anningite-(Ce)         | $(\text{Ca}_{0.5}\text{Ce}^{4+}_{0.5})(\text{VO}_4)$                                                                                                                 | A  | 2024-060  | Algeria                 | <i>Mineralogical Magazine</i> <b>90</b> (2026), 131                                   |                                                                                    |
| Annite                 | $\text{KFe}^{2+}_3(\text{AlSi}_3\text{O}_{10})(\text{OH})_2$                                                                                                         | A  | 1998 s.p. | USA                     | A System of Mineralogy, 5th ed. Wiley, New York (1868), 308                           | <i>American Mineralogist</i> <b>100</b> (2015), 2231                               |
| Annivite-(Zn)          | $\text{Cu}_6(\text{Cu}_4\text{Zn}_2)\text{Bi}_4\text{S}_{13}$                                                                                                        | A  | 2023-124  | Greece                  | <i>Mineralogical Magazine</i> <b>89</b> (2025), 102                                   |                                                                                    |
| Anorpiment             | $\text{As}_2\text{S}_3$                                                                                                                                              | A  | 2011-014  | Peru                    | <i>Mineralogical Magazine</i> <b>75</b> (2011), 2857                                  |                                                                                    |
| Anorthite              | $\text{Ca}(\text{Al}_2\text{Si}_2\text{O}_8)$                                                                                                                        | G  | 1823      | Italy                   | <i>Annalen der Physik und Physikalischen Chemie</i> , <b>73/NF-43</b> (1823), 173     | <i>Acta Crystallographica</i> <b>B76</b> (2020), 93                                |
| Anorthominasragrite    | $\text{V}^{4+}\text{O}(\text{SO}_4)(\text{H}_2\text{O})_3 \cdot 2\text{H}_2\text{O}$                                                                                 | A  | 2001-040  | USA                     | <i>Canadian Mineralogist</i> <b>41</b> (2003), 959                                    |                                                                                    |
| Anorthoselite          | $\text{Ca}_2\text{Co}(\text{AsO}_4)_2(\text{H}_2\text{O})_2$                                                                                                         | Rn | 2022 s.p. | Germany                 | <i>American Mineralogist</i> <b>40</b> (1955), 828                                    | <i>Zeitschrift für Kristallographie</i> <b>219</b> (2004), 341                     |
| Anorthoytttrialite-(Y) | $\text{Y}_4(\text{SiO}_4)(\text{Si}_3\text{O}_{10})$                                                                                                                 | A  | 2022-135  | Norway                  | <i>Mineralogical Magazine</i> <b>89</b> (2025), 428                                   |                                                                                    |

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|----------------|---------------------------------------------------------------------------------------------------------------------------------|----|-----------|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|
| Ansermetite    | $\text{Mn}^{2+}\text{V}^{5+}_2\text{O}_6(\text{H}_2\text{O})_2 \cdot 2\text{H}_2\text{O}$                                       | A  | 2002-017  | Switzerland                      | <i>Canadian Mineralogist</i> <b>41</b> (2003), 1423                                                                                    |                                                                           |
| Antarcticite   | $\text{CaCl}_2(\text{H}_2\text{O})_6$                                                                                           | A  | 1965-015  | Antarctica                       | <i>Science</i> <b>149</b> (1965), 975                                                                                                  | <i>Acta Crystallographica</i> <b>C42</b> (1986), 141                      |
| Anthoinite     | $\text{AlWO}_3(\text{OH})_3$                                                                                                    | G  | 1947      | Democratic Republic of the Congo | <i>Annales de la Société Géologique de Belgique</i> <b>70</b> (1947), B153                                                             | <i>American Mineralogist</i> <b>95</b> (2010), 639                        |
| Anthonyite     | $\text{Cu}(\text{OH})_2 \cdot 3\text{H}_2\text{O}$                                                                              | A  | 1967 s.p. | USA                              | <i>American Mineralogist</i> <b>48</b> (1963), 614                                                                                     |                                                                           |
| Anthophyllite  | $\square\text{Mg}_2\text{Mg}_5\text{Si}_8\text{O}_{22}(\text{OH})_2$                                                            | Rd | 2012 s.p. | Norway                           | Versuch eines Verzeichnisses der in den Dänisch-Nordischen Staaten sich findenden einfachen Mineralien. Brummer, Kopenhagen (1801), 96 | <i>Periodico di Mineralogia</i> <b>86</b> (2017), 55                      |
| Antigorite     | $\text{Mg}_3\text{Si}_2\text{O}_5(\text{OH})_4$                                                                                 | Rd | 1998 s.p. | Italy / Switzerland              | <i>Annalen der Physik und Chemie</i> <b>19</b> (1840), 595                                                                             | <i>American Mineralogist</i> <b>87</b> (2002), 1443                       |
| Antimonselite  | $\text{Sb}_2\text{Se}_3$                                                                                                        | A  | 1992-003  | China                            | <i>Acta Mineralogica Sinica</i> <b>13</b> (1993), 7                                                                                    | <i>Journal of Geosciences</i> <b>60</b> (2015), 23                        |
| Antimony       | Sb                                                                                                                              | G  | 1748      | Sweden                           | <i>Svenska Vetenskaps-Akademiens Handlingar</i> <b>9</b> (1748), 99                                                                    | <i>Acta Crystallographica</i> <b>16</b> (1963), 451                       |
| Antipinitite   | $\text{KNa}_3\text{Cu}_2(\text{C}_2\text{O}_4)_4$                                                                               | A  | 2014-027  | Chile                            | <i>Mineralogical Magazine</i> <b>79</b> (2015), 1111                                                                                   |                                                                           |
| Antipovite     | $\text{Cu}_5\text{O}_2(\text{PO}_4)_2$                                                                                          | A  | 2022-064  | Russia                           | CNMNC Newsletter 70 - <i>Mineralogical Magazine</i> <b>87</b> (2023), 160; <i>European Journal of Mineralogy</i> <b>34</b> (2022), 591 |                                                                           |
| Antlerite      | $\text{Cu}^{2+}_3(\text{SO}_4)(\text{OH})_4$                                                                                    | A  | 1967 s.p. | USA                              | <i>Bulletin of the United States Geological Survey</i> <b>55</b> (1889), 48                                                            | <i>Canadian Mineralogist</i> <b>27</b> (1989), 205                        |
| Antofagastaite | $\text{Na}_2\text{Ca}(\text{SO}_4)_2(\text{H}_2\text{O})_{1.5}$                                                                 | A  | 2018-049  | Chile                            | <i>Mineralogical Magazine</i> <b>83</b> (2019), 781                                                                                    |                                                                           |
| Anyuite        | $\text{AuPb}_2$                                                                                                                 | A  | 1987-053  | Russia                           | <i>Mineralogicheskij Zhurnal</i> <b>11</b> (1989), 88                                                                                  |                                                                           |
| Anzaite-(Ce)   | $\text{Ce}_4\text{Fe}^{2+}\text{Ti}_6\text{O}_{18}(\text{OH})_2$                                                                | A  | 2013-004  | Russia                           | <i>Mineralogical Magazine</i> <b>79</b> (2015), 1231                                                                                   |                                                                           |
| Apachite       | $\text{Cu}^{2+}_9\text{Si}_{10}\text{O}_{29} \cdot 11\text{H}_2\text{O}$                                                        | A  | 1979-022  | USA                              | <i>Mineralogical Magazine</i> <b>43</b> (1980), 639                                                                                    |                                                                           |
| Apexite        | $\text{NaMg}(\text{PO}_4)(\text{H}_2\text{O})_{8.5} \cdot 0.5\text{H}_2\text{O}$                                                | A  | 2015-002  | USA                              | <i>American Mineralogist</i> <b>100</b> (2015), 2695                                                                                   |                                                                           |
| Aphthitalite   | $\text{K}_3\text{Na}(\text{SO}_4)_2$                                                                                            | G  | 1835      | Italy                            | Treatise on Mineralogy, 2nd part, Vol. 1. Howe / Herrick and Noyes, New Haven (1835), 36                                               | <i>Canadian Journal of Mineralogy and Petrology</i> <b>61</b> (2023), 609 |
| Apjohnite      | $\text{Mn}^{2+}\text{Al}_2(\text{SO}_4)_4(\text{H}_2\text{O})_{17} \cdot 5\text{H}_2\text{O}$                                   | G  | 1847      | South Africa                     | Generum et Specierum Mineralium, Secundum Ordines Naturales Digestorum Synopsis. Anton, Halle (1847), 298                              | <i>European Journal of Mineralogy</i> <b>18</b> (2006), 463               |
| Aplowite       | $\text{Co}(\text{SO}_4)(\text{H}_2\text{O})_4$                                                                                  | A  | 1963-009  | Canada                           | <i>Canadian Mineralogist</i> <b>8</b> (1965), 166                                                                                      | <i>Acta Crystallographica</i> <b>C48</b> (1992), 776                      |
| Apuanite       | $(\text{Fe}^{2+}\text{Fe}^{3+}_2)(\text{Fe}^{3+}_2\text{Sb}^{3+}_4)\text{O}_{12}\text{S}$                                       | A  | 1978-069  | Italy                            | <i>American Mineralogist</i> <b>64</b> (1979), 1230                                                                                    | <i>American Mineralogist</i> <b>66</b> (1981), 1073                       |
| Aqualite       | $(\text{H}_3\text{O})_8(\text{Na},\text{K},\text{Sr})_5\text{Ca}_6\text{Zr}_3\text{Si}_{26}\text{O}_{66}(\text{OH})_9\text{Cl}$ | A  | 2002-066  | Russia                           | <i>Zapiski Rossiyskogo Mineralogicheskogo Obshchestva</i> <b>136(2)</b> (2007), 39                                                     | <i>Crystallography Reports</i> <b>63</b> (2018), 891                      |
| Aradite        | $\text{BaCa}_6[(\text{SiO}_4)(\text{VO}_4)](\text{VO}_4)_2\text{F}$                                                             | Rd | 2013-047  | Israel                           | <i>Mineralogical Magazine</i> <b>79</b> (2015), 1073                                                                                   |                                                                           |
| Aragonite      | $\text{Ca}(\text{CO}_3)$                                                                                                        | G  | 1791      | Spain                            | <i>Bulletin des Science, par la Société Philomathique</i> <b>2</b> (1791), 67                                                          | <i>Canadian Mineralogist</i> <b>47</b> (2009), 1245                       |
| Arakiite       | $\text{ZnMn}^{2+}_{12}\text{Fe}^{3+}_2(\text{As}^{3+}\text{O}_3)(\text{As}^{5+}\text{O}_4)_2(\text{OH})_{23}$                   | A  | 1998-062  | Sweden                           | <i>Mineralogical Record</i> <b>31</b> (2000), 253                                                                                      | <i>Canadian Mineralogist</i> <b>37</b> (1999), 1471                       |
| Aramayoite     | $\text{Ag}_3\text{Sb}_2(\text{Bi},\text{Sb})\text{S}_6$                                                                         | G  | 1926      | Bolivia                          | <i>Mineralogical Magazine</i> <b>21</b> (1926), 156                                                                                    | <i>American Mineralogist</i> <b>87</b> (2002), 753                        |
| Arangasite     | $\text{Al}_2(\text{SO}_4)(\text{PO}_4)\text{F}(\text{H}_2\text{O})_6 \cdot 3\text{H}_2\text{O}$                                 | A  | 2012-018  | Russia                           | <i>Zapiski Rossiyskogo Mineralogicheskogo Obshchestva</i> <b>142(5)</b> (2013), 21                                                     | <i>Mineralogical Magazine</i> <b>78</b> (2014), 889                       |
| Arapovite      | $(\text{K}_{1-x}\square_x)(\text{Ca},\text{Na})_2\text{U}^{4+}\text{Si}_8\text{O}_{20} \quad [x \approx 0.5]$                   | A  | 2003-046  | Tajikistan                       | <i>New Data on Minerals</i> <b>39</b> (2004), 14                                                                                       | <i>Canadian Mineralogist</i> <b>42</b> (2004), 1005                       |

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|--------------------------|-----------------------------------------------------------------------------------------------------------------|----|-----------|------------------------|--------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|
| Aravaipaite              | $\text{Pb}_3\text{AlF}_9(\text{H}_2\text{O})$                                                                   | A  | 1988-021  | USA                    | <i>American Mineralogist</i> <b>74</b> (1989), 927                                                                 | <i>American Mineralogist</i> <b>96</b> (2011), 402           |
| Aravaite                 | $\text{Ba}_2\text{Ca}_{18}(\text{SiO}_4)_6[(\text{PO}_4)_3(\text{CO}_3)]\text{F}_3\text{O}$                     | A  | 2018-078  | Israel                 | <i>Canadian Mineralogist</i> <b>59</b> (2021), 191                                                                 | <i>Acta Crystallographica</i> <b>B74</b> (2018), 492         |
| Arcanite                 | $\text{K}_2(\text{SO}_4)$                                                                                       | G  | 1845      | USA                    | Handbuch der bestimmenden Mineralogie. Braumüller and Seidel, Wien (1845), 487                                     | <i>Doklady Earth Sciences</i> <b>479</b> (2018), 339         |
| Archerite                | $\text{H}_2\text{K}(\text{PO}_4)$                                                                               | A  | 1975-008  | Australia              | <i>Mineralogical Magazine</i> <b>41</b> (1977), 33                                                                 | <i>Ionics</i> <b>19</b> (2013), 193                          |
| Arctite                  | $\text{Ba}(\text{Ca}_7\text{Na}_5)(\text{PO}_4)_4(\text{PO}_4)_2\text{F}_3$                                     | A  | 1980-049  | Russia                 | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>110</b> (1981), 506                                  | <i>Doklady Akademii Nauk SSSR</i> <b>274</b> (1984), 78      |
| Arcubisite               | $\text{Ag}_6\text{CuBiS}_4$                                                                                     | A  | 1973-009  | Denmark (Greenland)    | <i>Lithos</i> <b>9</b> (1976), 253                                                                                 |                                                              |
| Ardaite                  | $\text{Pb}_{17}\text{Sb}_{15}\text{S}_{35}\text{Cl}_9$                                                          | A  | 1979-073  | Bulgaria               | <i>Mineralogical Magazine</i> <b>46</b> (1982), 357                                                                | <i>Canadian Mineralogist</i> <b>19</b> (1981), 419           |
| Ardealite                | $\text{Ca}_2(\text{PO}_3\text{OH})(\text{SO}_4) \cdot 4\text{H}_2\text{O}$                                      | G  | 1932      | Romania                | <i>Centralblatt für Mineralogie, Geologie und Paläontologie</i> <b>2</b> (1932), 40                                | <i>European Journal of Mineralogy</i> <b>29</b> (2017), 1055 |
| Ardennite-(As)           | $\text{Mn}^{2+}_4\text{Al}_4(\text{AlMg})(\text{AsO}_4)(\text{SiO}_4)_2(\text{Si}_3\text{O}_{10})(\text{OH})_6$ | Rn | 2007 s.p. | Belgium                | <i>Neues Jahrbuch für Mineralogie, Geologie und Paläontologie</i> (1872), 930                                      | <i>European Journal of Mineralogy</i> <b>36</b> (2024), 687  |
| Ardennite-(V)            | $\text{Mn}^{2+}_4\text{Al}_4(\text{AlMg})(\text{VO}_4)(\text{SiO}_4)_2(\text{Si}_3\text{O}_{10})(\text{OH})_6$  | A  | 2005-037  | Italy                  | <i>European Journal of Mineralogy</i> <b>19</b> (2007), 581                                                        | <i>European Journal of Mineralogy</i> <b>36</b> (2024), 687  |
| Arfvedsonite             | $\text{NaNa}_2(\text{Fe}^{2+}_4\text{Fe}^{3+})\text{Si}_8\text{O}_{22}(\text{OH})_2$                            | Rd | 2012 s.p. | Denmark (Greenland)    | <i>Annals of Philosophy</i> <b>5</b> (1823), 381                                                                   | <i>Canadian Mineralogist</i> <b>36</b> (1998), 1253          |
| Argandite                | $\text{Mn}_7(\text{VO}_4)_2(\text{OH})_8$                                                                       | A  | 2010-021  | Switzerland            | <i>American Mineralogist</i> <b>96</b> (2011), 1894                                                                |                                                              |
| Argentobaumhauerite      | $\text{Ag}_{1.5}\text{Pb}_{22}\text{As}_{33.5}\text{S}_{72}$                                                    | Rn | 2015 s.p. | Switzerland            | <i>American Mineralogist</i> <b>75</b> (1990), 915                                                                 | <i>Mineralogical Magazine</i> <b>80</b> (2016), 819          |
| Argentodufrénoysite      | $\text{Ag}_3\text{Pb}_{26}\text{As}_{35}\text{S}_{80}$                                                          | A  | 2016-046  | Switzerland            | CNMNC Newsletter 33 - <i>Mineralogical Magazine</i> <b>80</b> (2016), 1135                                         |                                                              |
| Argentojarosite          | $\text{AgFe}^{3+}_3(\text{SO}_4)_2(\text{OH})_6$                                                                | Rd | 1987 s.p. | USA                    | <i>American Journal of Science</i> <b>6</b> (1923), 73                                                             | <i>Canadian Mineralogist</i> <b>41</b> (2003), 921           |
| Argentoliveingite        | $\text{Ag}_{3+x}\text{Pb}_{36-2x}\text{As}_{51+x}\text{S}_{112}$ ( $0 < x < 0.5$ )                              | A  | 2016-029  | Switzerland            | <i>European Journal of Mineralogy</i> <b>31</b> (2019), 1079                                                       |                                                              |
| Argentopearceite         | $[\text{Ag}_9\text{AgS}_4][\text{Ag}_6\text{As}_2\text{S}_7]$                                                   | A  | 2020-049  | Czech Republic         | <i>Mineralogical Magazine</i> <b>90</b> (2026), 21                                                                 |                                                              |
| Argentopentlandite       | $\text{Ag}(\text{Fe},\text{Ni})_8\text{S}_8$                                                                    | A  | 1970-047  | Russia                 | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>106</b> (1977), 688                                  | <i>Canadian Mineralogist</i> <b>12</b> (1973), 169           |
| Argentopolybasite        | $[\text{Ag}_9\text{AgS}_4][\text{Ag}_6\text{Sb}_2\text{S}_7]$                                                   | A  | 2021-119  | Slovakia               | <i>Mineralogical Magazine</i> <b>87</b> (2023), 382                                                                | <i>Mineralogical Magazine</i> <b>87</b> (2023), 561          |
| Argentopyrite            | $\text{AgFe}_2\text{S}_3$                                                                                       | G  | 1866      | Czech Republic         | <i>Nachrichten von der Königliche Gesellschaft der Wissenschaften und der Georg-Augusts-Universität</i> (1866), 66 | <i>American Mineralogist</i> <b>94</b> (2009), 1727          |
| Argentotennantite-(Fe)   | $\text{Ag}_6(\text{Cu}_4\text{Fe}_2)\text{As}_4\text{S}_{13}$                                                   | A  | 2023-126  | Peru                   | <i>European Journal of Mineralogy</i> <b>38</b> (2026), 325                                                        |                                                              |
| Argentotennantite-(Zn)   | $\text{Ag}_6(\text{Cu}_4\text{Zn}_2)\text{As}_4\text{S}_{13}$                                                   | Rd | 2019 s.p. | Kazakhstan             | <i>Doklady Akademii Nauk SSSR</i> <b>290</b> (1986), 206                                                           | <i>Mineralogical Magazine</i> <b>53</b> (1989), 293          |
| Argentotetrahedrite-(Cd) | $\text{Ag}_6(\text{Cu}_4\text{Cd}_2)\text{Sb}_4\text{S}_{13}$                                                   | A  | 2022-053  | Slovakia               | <i>Mineralogical Magazine</i> <b>87</b> (2023), 262                                                                |                                                              |
| Argentotetrahedrite-(Fe) | $\text{Ag}_6(\text{Cu}_4\text{Fe}_2)\text{Sb}_4\text{S}_{13}$                                                   | Rd | 2019 s.p. | Canada                 | <i>European Journal of Mineralogy</i> <b>30</b> (2018), 1163                                                       |                                                              |
| Argentotetrahedrite-(Hg) | $\text{Ag}_6(\text{Cu}_4\text{Hg}_2)\text{Sb}_4\text{S}_{13}$                                                   | A  | 2020-079  | China                  | <i>Acta Geologica Sinica</i> <b>96</b> (2022), 418                                                                 |                                                              |
| Argentotetrahedrite-(Zn) | $\text{Ag}_6(\text{Cu}_4\text{Zn}_2)\text{Sb}_4\text{S}_{13}$                                                   | A  | 2020-069  | Slovakia / Switzerland | <i>Mineralogical Magazine</i> <b>86</b> (2022), 319                                                                |                                                              |
| Argesite                 | $(\text{NH}_4)_7\text{Bi}_3\text{Cl}_{16}$                                                                      | A  | 2011-072  | Italy                  | <i>American Mineralogist</i> <b>97</b> (2012), 1446                                                                |                                                              |

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|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----------|-------------------|--------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| Argutite            | GeO <sub>2</sub>                                                                                                                                                                              | A  | 1980-067  | France            | <i>Tschermaks Mineralogische und Petrographische Mitteilungen</i> <b>31</b> (1983), 97           | <i>Physics and Chemistry of Minerals</i> <b>27</b> (2000), 575                          |
| Argyrodite          | Ag <sub>8</sub> GeS <sub>6</sub>                                                                                                                                                              | G  | 1886      | Germany           | <i>Neues Jahrbuch für Mineralogie, Geologie und Paläontologie</i> <b>2</b> (1886), 67            | <i>Acta Crystallographica</i> <b>B55</b> (1999), 721                                    |
| Arhbarite           | Cu <sub>2</sub> Mg(AsO <sub>4</sub> )(OH) <sub>3</sub>                                                                                                                                        | Rd | 1981-044  | Morocco           | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1982), 529                                    | <i>Mineralogical Magazine</i> <b>67</b> (2003), 1099                                    |
| Ariegilatite        | BaCa <sub>12</sub> (SiO <sub>4</sub> ) <sub>4</sub> (PO <sub>4</sub> ) <sub>2</sub> OF <sub>2</sub>                                                                                           | A  | 2016-100  | Israel            | <i>Minerals</i> <b>8</b> (2018), 109                                                             |                                                                                         |
| Arisite-(Ce)        | NaCe <sub>2</sub> (CO <sub>3</sub> ) <sub>2</sub> [F <sub>2x</sub> (CO <sub>3</sub> ) <sub>1-x</sub> ]F                                                                                       | A  | 2009-013  | Canada / Namibia  | <i>Canadian Mineralogist</i> <b>48</b> (2010), 661                                               | <i>Mineralogical Magazine</i> <b>74</b> (2010), 257                                     |
| Arisite-(La)        | NaLa <sub>2</sub> (CO <sub>3</sub> ) <sub>2</sub> [F <sub>2x</sub> (CO <sub>3</sub> ) <sub>1-x</sub> ]F                                                                                       | A  | 2009-019  | Namibia           | <i>Mineralogical Magazine</i> <b>74</b> (2010), 257                                              |                                                                                         |
| Aristarainite       | Na <sub>2</sub> Mg[B <sub>6</sub> O <sub>8</sub> (OH) <sub>4</sub> ] <sub>2</sub> (H <sub>2</sub> O) <sub>4</sub>                                                                             | A  | 1973-029  | Argentina         | <i>American Mineralogist</i> <b>59</b> (1974), 647                                               | <i>American Mineralogist</i> <b>62</b> (1977), 979                                      |
| Armalcolite         | MgTi <sub>2</sub> O <sub>5</sub>                                                                                                                                                              | Rd | 1970-006  | The Moon          | <i>Geochimica et Cosmochimica Acta</i> <b>34</b> , suppl. 1 (1970), 55                           | <i>American Mineralogist</i> <b>109</b> (2024), 24                                      |
| Armangite           | Mn <sup>2+</sup> <sub>26</sub> [As <sup>3+</sup> <sub>6</sub> (OH) <sub>4</sub> O <sub>14</sub> ][As <sup>3+</sup> <sub>6</sub> O <sub>18</sub> ] <sub>2</sub> (CO <sub>3</sub> )             | G  | 1920      | Sweden            | <i>Geologiska Föreningens i Stockholm Förhandlingar</i> <b>42</b> (1920), 301                    | <i>American Mineralogist</i> <b>64</b> (1979), 748                                      |
| Armbrusterite       | Na <sub>6</sub> K <sub>5</sub> Mn <sup>3+</sup> Mn <sup>2+</sup> <sub>14</sub> (Si <sub>9</sub> O <sub>22</sub> ) <sub>4</sub> (OH) <sub>10</sub> ·4H <sub>2</sub> O                          | A  | 2005-035  | Russia            | <i>American Mineralogist</i> <b>92</b> (2007), 416                                               |                                                                                         |
| Armellinoite-(Ce)   | Ca <sub>4</sub> Ce <sup>4+</sup> (AsO <sub>4</sub> ) <sub>4</sub> (H <sub>2</sub> O)                                                                                                          | A  | 2018-094  | Italy             | <i>Mineralogical Magazine</i> <b>85</b> (2021), 901                                              |                                                                                         |
| Armenite            | BaCa <sub>2</sub> (Al <sub>6</sub> Si <sub>9</sub> )O <sub>30</sub> (H <sub>2</sub> O) <sub>2</sub>                                                                                           | G  | 1939      | Norway            | <i>Norsk Geologisk Tidsskrift</i> <b>19</b> (1939), 312                                          | <i>Zeitschrift für Kristallographie</i> <b>227</b> (2012), 411                          |
| Armstrongite        | CaZr(Si <sub>6</sub> O <sub>15</sub> )(H <sub>2</sub> O) <sub>2</sub>                                                                                                                         | A  | 1972-018  | Mongolia          | <i>Doklady Akademii Nauk SSSR</i> <b>209</b> (1973), 1185                                        | <i>American Mineralogist</i> <b>99</b> (2014), 2424                                     |
| Arrheniusite-(Ce)   | CaMg[(Ce <sub>7</sub> Y <sub>3</sub> )Ca <sub>5</sub> ](SiO <sub>4</sub> ) <sub>3</sub> (Si <sub>3</sub> B <sub>3</sub> O <sub>18</sub> )(AsO <sub>4</sub> )(BO <sub>3</sub> )F <sub>11</sub> | A  | 2019-086  | Sweden            | <i>Canadian Mineralogist</i> <b>59</b> (2021), 177                                               |                                                                                         |
| Arrojadite-(BaNa)   | (Ba□)Na <sub>2</sub> (CaNa <sub>2</sub> □)Fe <sup>2+</sup> <sub>13</sub> Al(PO <sub>4</sub> ) <sub>11</sub> (PO <sub>3</sub> OH)(OH) <sub>2</sub>                                             | A  | 2014-071  | Italy             | <i>Canadian Mineralogist</i> <b>54</b> (2016), 1021                                              | <i>Canadian Mineralogist</i> <b>56</b> (2018), 923                                      |
| Arrojadite-(KFe)    | KNa(Fe <sup>2+</sup> □)(CaNa <sub>2</sub> □)Fe <sup>2+</sup> <sub>13</sub> Al(PO <sub>4</sub> ) <sub>11</sub> (PO <sub>3</sub> OH)(OH) <sub>2</sub>                                           | Rn | 2005 s.p. | Brazil            | <i>Publicação da Inspectoria de Obras Contra as Seccas, Rio de Janeiro</i> <b>58</b> (1925), 119 | <i>Acta Crystallographica</i> <b>B37</b> (1981), 1733                                   |
| Arrojadite-(KNa)    | (KNa)Na <sub>2</sub> (CaNa <sub>2</sub> □)Fe <sup>2+</sup> <sub>13</sub> Al(PO <sub>4</sub> ) <sub>11</sub> (PO <sub>3</sub> OH)(OH) <sub>2</sub>                                             | A  | 2005-047  | Canada            | <i>American Mineralogist</i> <b>91</b> (2006), 1260                                              | <i>American Mineralogist</i> <b>91</b> (2006), 1249                                     |
| Arrojadite-(PbFe)   | (Pb□)(Fe <sup>2+</sup> □)(CaNa <sub>2</sub> □)Fe <sup>2+</sup> <sub>13</sub> Al(PO <sub>4</sub> ) <sub>11</sub> (PO <sub>3</sub> OH)(OH) <sub>2</sub>                                         | A  | 2005-056  | Brazil            | <i>American Mineralogist</i> <b>91</b> (2006), 1260                                              | <i>American Mineralogist</i> <b>91</b> (2006), 1249                                     |
| Arrojadite-(SrFe)   | (Sr□)(Fe <sup>2+</sup> □)(CaNa <sub>2</sub> □)Fe <sup>2+</sup> <sub>13</sub> Al(PO <sub>4</sub> ) <sub>11</sub> (PO <sub>3</sub> OH)(OH) <sub>2</sub>                                         | A  | 2005-032  | Sweden            | <i>American Mineralogist</i> <b>91</b> (2006), 1260                                              | <i>American Mineralogist</i> <b>91</b> (2006), 1249                                     |
| Arsenatrotitanite   | NaTiO(AsO <sub>4</sub> )                                                                                                                                                                      | A  | 2016-015  | Russia            | <i>Mineralogical Magazine</i> <b>83</b> (2019), 453                                              |                                                                                         |
| Arsenbrackebuschite | Pb <sub>2</sub> Fe <sup>3+</sup> (AsO <sub>4</sub> ) <sub>2</sub> (OH)                                                                                                                        | A  | 1977-014  | Namibia / Germany | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1978), 193                                    | <i>Tschermaks Mineralogische und Petrographische Mitteilungen</i> <b>25</b> (1978), 153 |
| Arsendescloizite    | PbZn(AsO <sub>4</sub> )(OH)                                                                                                                                                                   | A  | 1979-030  | Namibia           | <i>Mineralogical Record</i> <b>13</b> (1982), 155                                                | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (2003), 374                           |
| Arsenic             | As                                                                                                                                                                                            | G  | 1755      | Germany / Norway  | <i>Försök till en Mineralogie. Wildiska, Stockholm</i> (1758), 206                               | <i>Journal of Applied Crystallography</i> <b>2</b> (1969), 30                           |
| Arseniopleite       | NaCaMnMn <sub>2</sub> (AsO <sub>4</sub> ) <sub>3</sub>                                                                                                                                        | A  | 1967 s.p. | Sweden            | <i>Neues Jahrbuch für Mineralogie, Geologie und Paläontologie</i> <b>2</b> (1888), 117           | <i>Canadian Mineralogist</i> <b>41</b> (2003), 71                                       |
| Arsenosiderite      | Ca <sub>2</sub> Fe <sup>3+</sup> <sub>3</sub> O <sub>2</sub> (AsO <sub>4</sub> ) <sub>3</sub> (H <sub>2</sub> O) <sub>2</sub> ·H <sub>2</sub> O                                               | G  | 1842      | France            | <i>Annales des Mines</i> <b>2</b> (1842), 343                                                    | <i>American Mineralogist</i> <b>59</b> (1974), 48                                       |
| Arsenmarcobaldiite  | Pb <sub>12</sub> (As <sub>3.2</sub> Sb <sub>2.8</sub> )S <sub>21</sub>                                                                                                                        | A  | 2016-045  | Italy             | <i>European Journal of Mineralogy</i> <b>31</b> (2019), 1067                                     |                                                                                         |

|                       |                                                                                          |    |           |                |                                                                                                                                        |                                                                                             |
|-----------------------|------------------------------------------------------------------------------------------|----|-----------|----------------|----------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| Arsenmedaite          | $\text{Mn}^{2+}_6\text{As}^{5+}_5\text{Si}_5\text{O}_{18}(\text{OH})$                    | A  | 2016-099  | Italy          | <i>European Journal of Mineralogy</i> <b>31</b> (2019), 117                                                                            |                                                                                             |
| Arsenobenauite        | $\text{SrFe}^{3+}_3(\text{AsO}_4)(\text{AsO}_3\text{OH})(\text{OH})_6$                   | A  | 2025-077  | Germany        | CNMNC Newsletter 89 - <i>Mineralogical Magazine</i> <b>90</b> (2026), 481; <i>European Journal of Mineralogy</i> <b>38</b> (2026), 117 |                                                                                             |
| Arsenoclasite         | $\text{Mn}^{2+}_5(\text{AsO}_4)_2(\text{OH})_4$                                          | G  | 1931      | Sweden         | <i>Kungliga Svenska Vetenskapsakademiens Handlingar</i> <b>9(5)</b> (1931), 52                                                         | <i>American Mineralogist</i> <b>56</b> (1971), 1539                                         |
| Arsenocrandallite     | $\text{CaAl}_3(\text{AsO}_4)(\text{AsO}_3\text{OH})(\text{OH})_6$                        | A  | 1980-060  | Germany        | <i>Schweizerische Mineralogische und Petrographische Mitteilungen</i> <b>61</b> (1981), 23                                             | <i>Mineralogical Magazine</i> <b>74</b> (2010), 919                                         |
| Arsenoflorencite-(Ce) | $\text{CeAl}_3(\text{AsO}_4)_2(\text{OH})_6$                                             | A  | 1985-053  | Australia      | <i>Mineralogical Magazine</i> <b>51</b> (1987), 605                                                                                    |                                                                                             |
| Arsenoflorencite-(La) | $\text{LaAl}_3(\text{AsO}_4)_2(\text{OH})_6$                                             | A  | 2009-078  | Russia         | <i>European Journal of Mineralogy</i> <b>22</b> (2010), 613                                                                            | <i>Mineralogical Magazine</i> <b>76</b> (2012), 975                                         |
| Arsenogoldfieldite    | $\text{Cu}_6\text{Cu}_6(\text{As}_2\text{Te}_2)\text{S}_{13}$                            | A  | 2022-084  | USA            | <i>Journal of Geosciences</i> <b>70</b> (2025), 33                                                                                     |                                                                                             |
| Arsenogorceixite      | $\text{BaAl}_3(\text{AsO}_4)(\text{AsO}_3\text{OH})(\text{OH})_6$                        | A  | 1989-055  | Germany        | <i>Aufschluss</i> <b>44</b> (1993), 250                                                                                                | <i>Mineralogical Magazine</i> <b>74</b> (2010), 919                                         |
| Arsenogoyazite        | $\text{SrAl}_3(\text{AsO}_4)(\text{AsO}_3\text{OH})(\text{OH})_6$                        | A  | 1983-043  | Germany        | <i>Schweizerische Mineralogische und Petrographische Mitteilungen</i> <b>64</b> (1984), 11                                             | <i>Mineralogical Magazine</i> <b>74</b> (2010), 919                                         |
| Arsenohauchecornite   | $\text{Ni}_{18}\text{Bi}_3\text{AsS}_{16}$                                               | A  | 1978 s.p. | Canada         | <i>Mineralogical Magazine</i> <b>43</b> (1980), 877                                                                                    | <i>American Mineralogist</i> <b>111</b> (2026), 209                                         |
| Arsenohopeite         | $\text{Zn}_3(\text{AsO}_4)_2(\text{H}_2\text{O})_4$                                      | A  | 2010-069  | Namibia        | <i>Mineralogical Magazine</i> <b>76</b> (2012), 603                                                                                    |                                                                                             |
| Arsenolamprite        | As                                                                                       | G  | 1886      | Germany        | <i>Zeitschrift für Kristallographie und Mineralogie</i> <b>11</b> (1886), 606                                                          | <i>Journal of Physical Chemistry A</i> <b>113</b> (2009), 736                               |
| Arsenolite            | $\text{As}_2\text{O}_3$                                                                  | G  | 1854      | Germany        | A System of Mineralogy, 4th ed. Vol. 2. Putnam, New York (1854), 139                                                                   | <i>Journal of Physical Chemistry A</i> <b>113</b> (2009), 736                               |
| Arsenopalladinite     | $\text{Pd}_8\text{As}_3$                                                                 | Rd | 1973-002a | Brazil         | An Index of Mineral Species and Varieties Arranged Chemically. British Museum, London (1955), 23                                       | <i>Mineralogical Magazine</i> <b>84</b> (2020), 746                                         |
| Arsenopyrite          | FeAsS                                                                                    | A  | 1962 s.p. | unknown        | Generum et Specierum Mineralium, Secundum Ordines Naturales Digestorum Synopsis. Anton, Halle (1847), 34                               | <i>Canadian Mineralogist</i> <b>50</b> (2012), 471                                          |
| Arsenosabugalite      | $\text{H}_{0.5}\text{Al}_{0.5}(\text{UO}_2)_2(\text{AsO}_4)_2 \cdot 8\text{H}_2\text{O}$ | A  | 2025-031a | USA            | CNMNC Newsletter 88 - <i>Mineralogical Magazine</i> <b>90</b> (2026), 192; <i>European Journal of Mineralogy</i> <b>37</b> (2025), 921 |                                                                                             |
| Arsenotučekite        | $\text{Ni}_{18}\text{Sb}_3\text{AsS}_{16}$                                               | A  | 2019-135  | Greece         | <i>Mineralogy and Petrology</i> <b>114</b> (2020), 435                                                                                 | <i>Journal of Mineralogical and Petrological Sciences</i> <b>121</b> (2026), 251128aL       |
| Arsenouštalečite      | $\text{Cu}_6\text{Cu}_6(\text{As}_2\text{Te}_2)\text{Se}_{13}$                           | A  | 2022-116  | Czech Republic | <i>Mineralogical Magazine</i> <b>88</b> (2024), 127                                                                                    |                                                                                             |
| Arsenovanmeersscheite | $\text{U}(\text{UO}_2)_3(\text{AsO}_4)_2(\text{OH})_6 \cdot 4\text{H}_2\text{O}$         | A  | 2006-018  | Germany        | <i>Aufschluss</i> <b>58</b> (2007), 159                                                                                                |                                                                                             |
| Arsenoveszelyite      | $\text{Cu}_2\text{Zn}(\text{AsO}_4)(\text{OH})_3(\text{H}_2\text{O})_2$                  | A  | 2021-076a | China          | CNMNC Newsletter 66 - <i>Mineralogical Magazine</i> <b>86</b> (2022), 359; <i>European Journal of Mineralogy</i> <b>34</b> (2022), 253 | <a href="https://doi.org/10.1180/mgm.2025.10153">https://doi.org/10.1180/mgm.2025.10153</a> |
| Arsenowagnerite       | $\text{Mg}_2(\text{AsO}_4)\text{F}$                                                      | A  | 2014-100  | Russia         | <i>Mineralogical Magazine</i> <b>82</b> (2018), 877                                                                                    |                                                                                             |
| Arsenquatrandorite    | $\text{Ag}_{17.6}\text{Pb}_{12.8}\text{Sb}_{38.1}\text{As}_{11.5}\text{S}_{96}$          | A  | 2012-087  | Iran           | CNMNC Newsletter 16 - <i>Mineralogical Magazine</i> <b>77</b> (2013), 2695                                                             |                                                                                             |
| Arsensumebite         | $\text{Pb}_2\text{Cu}(\text{AsO}_4)(\text{SO}_4)(\text{OH})$                             | G  | 1935 ?    | Namibia        | <i>Bulletin de la Société Française de Minéralogie</i> <b>58</b> (1935), 4                                                             | <i>Mineralogy and Petrology</i> <b>75</b> (2002), 79                                        |
| Arsenudinaite         | $\text{NaMg}_4(\text{AsO}_4)_3$                                                          | A  | 2018-067  | Russia         | <i>Minerals</i> <b>12</b> (2022), 850                                                                                                  |                                                                                             |

|                    |                                                                                                                                                          |    |            |                           |                                                                                                                                        |                                                                                             |
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| Arsenuranospathite | $\text{Al}(\text{UO}_2)_2(\text{AsO}_4)_2\text{F}(\text{H}_2\text{O})_5 \cdot 15\text{H}_2\text{O}$                                                      | A  | 1982 s.p.? | Germany                   | <i>Mineralogical Magazine</i> <b>42</b> (1978), 117                                                                                    | <i>European Journal of Mineralogy</i> <b>27</b> (2015), 589                                 |
| Arsenuranylite     | $\text{Ca}(\text{UO}_2)_4(\text{AsO}_4)_2(\text{OH})_4 \cdot 6\text{H}_2\text{O}$                                                                        | G  | 1958       | Uzbekistan                | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>87</b> (1958), 598                                                       |                                                                                             |
| Arsiccioite        | $\text{AgHg}_2\text{TiAs}_2\text{S}_6$                                                                                                                   | A  | 2013-058   | Italy                     | <i>Mineralogical Magazine</i> <b>78</b> (2014), 101                                                                                    |                                                                                             |
| Arsmirandite       | $\text{Na}_{18}\text{Cu}_{12}\text{Fe}^{3+}\text{O}_8(\text{AsO}_4)_8\text{Cl}_5$                                                                        | A  | 2014-081   | Russia                    | <i>Zapiski Rossiyskogo Mineralogicheskogo Obshchestva</i> <b>149(3)</b> (2020), 1                                                      |                                                                                             |
| Arthurite          | $\text{CuFe}^{3+}_2(\text{AsO}_4)_2(\text{OH})_2(\text{H}_2\text{O})_4$                                                                                  | A  | 1964-002   | United Kingdom            | <i>Mineralogical Magazine</i> <b>33</b> (1964), 937                                                                                    | <i>Neues Jahrbuch für Mineralogie Abhandlungen</i> <b>133</b> (1978), 291                   |
| Artinite           | $\text{Mg}_2(\text{CO}_3)(\text{OH})_2(\text{H}_2\text{O})_3$                                                                                            | G  | 1902       | Italy                     | <i>Rendiconti del Regio Istituto Lombardo di Scienze e Lettere, Serie II</i> <b>35</b> (1902), 869                                     | <i>Acta Crystallographica</i> <b>B33</b> (1977), 3951                                       |
| Artroeite          | $\text{PbAlF}_3(\text{OH})_2$                                                                                                                            | A  | 1993-031   | USA                       | <i>American Mineralogist</i> <b>80</b> (1995), 179                                                                                     |                                                                                             |
| Arsmithite         | $\text{Hg}^{1+}_4\text{Al}(\text{PO}_4)_{1.74}(\text{OH})_{1.78}$                                                                                        | A  | 2002-039   | USA                       | <i>Canadian Mineralogist</i> <b>41</b> (2003), 721                                                                                     |                                                                                             |
| Arupite            | $\text{Ni}_3(\text{PO}_4)_2(\text{H}_2\text{O})_8$                                                                                                       | A  | 1988-008   | Brazil                    | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1990), 76                                                                           | <i>Chemical Journal of Chinese Universities</i> <b>23</b> (2002), 1480                      |
| Arzamastsevite     | $\text{K}_6\text{Al}_5\text{Si}_6\text{O}_{20}(\text{OH})_4\text{Cl}$                                                                                    | A  | 2024-085   | Russia                    | CNMNC Newsletter 85 - <i>Mineralogical Magazine</i> <b>89</b> (2025), 454; <i>European Journal of Mineralogy</i> <b>37</b> (2025), 337 | <a href="https://doi.org/10.1180/mgm.2025.10182">https://doi.org/10.1180/mgm.2025.10182</a> |
| Arzrunite          | $\text{Pb}_2\text{Cu}_4(\text{SO}_4)(\text{OH})_4\text{Cl}_6 \cdot 2\text{H}_2\text{O}$                                                                  | Q  | 1899       | Chile                     | <i>Zeitschrift für Kristallographie, Mineralogie und Petrographie</i> <b>31</b> (1899), 230                                            |                                                                                             |
| Asagiite           | $\text{NiCu}_4(\text{SO}_4)_2(\text{OH})_6(\text{H}_2\text{O})_6$                                                                                        | A  | 2022-065   | Japan                     | <i>Journal of Mineralogical and Petrological Sciences</i> <b>118</b> (2023), 230711                                                    |                                                                                             |
| Asbecasite         | $\text{Ca}_3\text{TiAs}_6\text{Be}_2\text{Si}_2\text{O}_{20}$                                                                                            | A  | 1965-037   | Switzerland               | <i>Schweizerische Mineralogische und Petrographische Mitteilungen</i> <b>46</b> (1966), 367                                            | <i>Mineralogical Magazine</i> <b>57</b> (1993), 315                                         |
| Asbolane           | $\text{Mn}^{4+}(\text{O},\text{OH})_2 \cdot (\text{Co},\text{Ni},\text{Mg},\text{Ca})_x(\text{OH})_{2x} \cdot n\text{H}_2\text{O}$                       | G  | 1841       | unknown                   | <i>Vollständiges Handbuch der Mineralogie Vol. 2. Arnoldische, Dresden und Leipzig</i> (1841), 332                                     | <i>Doklady Akademii Nauk, Earth Science Section</i> <b>345</b> (1996), 230                  |
| Aschamalmite       | $\text{Pb}_{6-3x}\text{Bi}_{2+x}\text{S}_9$                                                                                                              | A  | 1982-089   | Austria                   | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1983), 433                                                                          | <i>Mineralogical Magazine</i> <b>73</b> (2009), 83                                          |
| Åsgruvanite-(Ce)   | $\text{Ce}_{16}\text{Ca}_5\text{Al}(\text{SiO}_4)_6(\text{AsO}_3)_8(\text{CO}_3)_2\text{Cl}_4\text{F}_3(\text{OH})_2$                                    | A  | 2025-004   | Sweden                    | <i>European Journal of Mineralogy</i> <b>37</b> (2025), 937                                                                            |                                                                                             |
| Ashburtonite       | $\text{HCu}_4\text{Pb}_4\text{Si}_4\text{O}_{12}(\text{HCO}_3)_4(\text{OH})_4\text{Cl}$                                                                  | A  | 1990-033   | Australia                 | <i>American Mineralogist</i> <b>76</b> (1991), 1701                                                                                    |                                                                                             |
| Ashcroftine-(Y)    | $\text{K}_5\text{Na}_5\text{Y}_{12}\text{Si}_{28}\text{O}_{70}(\text{OH})_2(\text{CO}_3)_8(\text{H}_2\text{O})_8$                                        | Rn | 1987 s.p.  | Denmark (Greenland)       | <i>Mineralogical Magazine</i> <b>23</b> (1933), 305                                                                                    | <i>American Mineralogist</i> <b>72</b> (1987), 1176                                         |
| Ashoverite         | $\text{Zn}(\text{OH})_2$                                                                                                                                 | A  | 1986-008   | United Kingdom            | <i>Mineralogical Magazine</i> <b>52</b> (1988), 699                                                                                    |                                                                                             |
| Asimowite          | $\text{Fe}_2\text{SiO}_4$                                                                                                                                | A  | 2018-102   | China / Chile (meteorite) | <i>American Mineralogist</i> <b>104</b> (2019), 775                                                                                    |                                                                                             |
| Asisite            | $\text{Pb}_7\text{SiO}_8\text{Cl}_2$                                                                                                                     | A  | 1987-003   | Namibia                   | <i>American Mineralogist</i> <b>73</b> (1988), 643                                                                                     | <i>Mineralogical Magazine</i> <b>68</b> (2004), 247                                         |
| Åskagenite-(Nd)    | $\text{Mn}^{2+}\text{Nd}(\text{Al}_2\text{Fe}^{3+})(\text{Si}_2\text{O}_7)(\text{SiO}_4)_2\text{O}_2$                                                    | A  | 2009-073   | Sweden                    | <i>New Data on Minerals</i> <b>45</b> (2010), 17                                                                                       |                                                                                             |
| Aspedamite         | $\square_{12}(\text{Fe}^{3+},\text{Fe}^{2+})_3\text{Nb}_4[\text{Th}(\text{Nb},\text{Fe}^{3+})_{12}\text{O}_{42}][(\text{H}_2\text{O}),(\text{OH})]_{12}$ | A  | 2011-056   | Norway                    | <i>Canadian Mineralogist</i> <b>50</b> (2012), 793                                                                                     |                                                                                             |

|                    |                                                                                                       |    |           |                                  |                                                                                                              |                                                                                      |
|--------------------|-------------------------------------------------------------------------------------------------------|----|-----------|----------------------------------|--------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| Aspidolite         | $\text{NaMg}_3(\text{Si}_3\text{Al})\text{O}_{10}(\text{OH})_2$                                       | Rd | 2004-049  | Japan                            | <i>Sitzungsberichte der Königlich Bayerische Akademie der Wissenschaften zu München</i> <b>1</b> (1869), 364 | <i>Mineralogical Magazine</i> <b>69</b> (2005), 1047                                 |
| Asselbornite       | $\text{Pb}(\text{UO}_2)_4(\text{BiO})_3(\text{AsO}_4)_2(\text{OH})_7 \cdot 4\text{H}_2\text{O}$       | A  | 1980-087  | Germany                          | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1983), 417                                                |                                                                                      |
| Astrocyanite-(Ce)  | $\text{Cu}_2\text{Ce}_2(\text{UO}_2)(\text{CO}_3)_5(\text{OH})_2 \cdot 1.5\text{H}_2\text{O}$         | A  | 1989-032  | Democratic Republic of the Congo | <i>European Journal of Mineralogy</i> <b>2</b> (1990), 407                                                   |                                                                                      |
| Astrophyllite      | $\text{K}_2\text{NaFe}^{2+}_7\text{Ti}_2(\text{Si}_4\text{O}_{12})_2\text{O}_2(\text{OH})_4\text{F}$  | G  | 1848      | Norway                           | <i>Archiv für Mineralogie, Geognosie, Bergbau und Hüttenkunde</i> <b>22</b> (1848), 465                      | <i>Canadian Mineralogist</i> <b>48</b> (2010), 1                                     |
| Atacamite          | $\text{Cu}_2\text{Cl}(\text{OH})_3$                                                                   | G  | 1797      | Chile                            | <i>Handbuch der Naturgeschichte, Dieterich, Göttingen</i> (1797), 655                                        | <i>Acta Crystallographica</i> <b>C42</b> (1986), 1277                                |
| Atelestite         | $\text{Bi}_2\text{O}(\text{AsO}_4)(\text{OH})$                                                        | G  | 1832      | Germany                          | Vollständige Charakteristik des Mineral-System's. Arnoldische, Dresden und Leipzig (1832), 307               | <i>Canadian Mineralogist</i> <b>7</b> (1963), 547                                    |
| Atelisite-(Y)      | $\text{Y}_4\text{Si}_3\text{O}_8(\text{OH})_8$                                                        | A  | 2010-065  | Norway                           | <i>European Journal of Mineralogy</i> <b>24</b> (2012), 1053                                                 |                                                                                      |
| Atencioite         | $\text{Ca}_2\text{Fe}^{2+}_3\text{Mg}_2\text{Be}_4(\text{PO}_4)_6(\text{OH})_4(\text{H}_2\text{O})_6$ | A  | 2004-041  | Brazil                           | <i>New Data on Minerals</i> <b>41</b> (2006), 18                                                             |                                                                                      |
| Athabascaite       | $\text{Cu}_5\text{Se}_4$                                                                              | A  | 1969-022  | Canada                           | <i>Canadian Mineralogist</i> <b>10</b> (1970), 207                                                           |                                                                                      |
| Atheneite          | $\text{Pd}_2(\text{As}_{0.75}\text{Hg}_{0.25})$                                                       | A  | 1973-050  | Brazil                           | <i>Mineralogical Magazine</i> <b>39</b> (1974), 528                                                          | <i>Canadian Mineralogist</i> <b>48</b> (2010), 1149                                  |
| Atlasovite         | $\text{Cu}^{2+}_6\text{Fe}^{3+}\text{Bi}^{3+}\text{O}_4(\text{SO}_4)_5 \cdot \text{KCl}$              | A  | 1986-029  | Russia                           | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>116</b> (1987), 358                            |                                                                                      |
| Atokite            | $\text{Pd}_3\text{Sn}$                                                                                | A  | 1974-041  | South Africa                     | <i>Canadian Mineralogist</i> <b>13</b> (1975), 146                                                           |                                                                                      |
| Attakolite         | $\text{CaMn}^{2+}\text{Al}_4(\text{HSiO}_4)(\text{PO}_4)_3(\text{OH})_4$                              | Rd | 1992 s.p. | Sweden                           | <i>Öfversigt af Kongliga Vetenskaps-Akademiens Förhandlingar</i> <b>25</b> (1868), 197                       | <i>American Mineralogist</i> <b>77</b> (1992), 1285                                  |
| Attikaite          | $\text{Ca}_3\text{Cu}_2\text{Al}_2(\text{AsO}_4)_4(\text{OH})_4 \cdot 2\text{H}_2\text{O}$            | A  | 2006-017  | Greece                           | <i>Zapiski Rossiyskogo Mineralogicheskogo Obshchestva</i> <b>136(2)</b> (2007), 17                           |                                                                                      |
| Aubertite          | $\text{Cu}^{2+}\text{Al}(\text{SO}_4)_2\text{Cl}(\text{H}_2\text{O})_{12} \cdot 2\text{H}_2\text{O}$  | A  | 1978-051  | Chile                            | <i>Bulletin de Minéralogie</i> <b>102</b> (1979), 348                                                        | <i>Acta Crystallographica</i> <b>B35</b> (1979), 2499                                |
| Auerbakhite        | $\text{MnTi}_2\text{As}_2\text{S}_5$                                                                  | A  | 2020-047  | Russia                           | <i>Journal of Geosciences</i> <b>66</b> (2021), 89                                                           |                                                                                      |
| Augelite           | $\text{Al}_2(\text{PO}_4)(\text{OH})_3$                                                               | G  | 1868      | Sweden                           | <i>Öfversigt af Kongliga Vetenskaps-Akademiens Förhandlingar</i> <b>25</b> (1868), 197                       | <i>Zeitschrift für Kristallographie - Crystalline Materials</i> <b>229</b> (2014), 8 |
| Augite             | $(\text{Ca}, \text{Mg}, \text{Fe})_2\text{Si}_2\text{O}_6$                                            | A  | 1988 s.p. | unknown                          | <i>Bergmannisches Journal</i> <b>1</b> (1792), 215                                                           | <i>American Mineralogist</i> <b>102</b> (2017), 1516                                 |
| Auriacusite        | $\text{Fe}^{3+}\text{Cu}^{2+}(\text{AsO}_4)\text{O}$                                                  | A  | 2009-037  | USA                              | <i>Mineralogy and Petrology</i> <b>99</b> (2010), 113                                                        |                                                                                      |
| Aurichalcite       | $(\text{Zn}, \text{Cu})_5(\text{CO}_3)_2(\text{OH})_6$                                                | G  | 1839      | Russia                           | <i>Annalen der Physik und Chemie</i> <b>48</b> (1839), 495                                                   | <i>Journal of Mineralogy and Geochemistry</i> <b>191</b> (2014), 225                 |
| Auricupride        | $\text{Cu}_3\text{Au}$                                                                                | G  | 1950      | Russia                           | <i>Fortschritte der Mineralogie</i> <b>28</b> (1950), 69                                                     | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>106</b> (1977), 540    |
| Aurihydrargyrumite | $\text{Au}_6\text{Hg}_5$                                                                              | A  | 2017-003  | Japan                            | <i>Minerals</i> <b>8</b> (2018), 415                                                                         | <i>Bulletin Mineralogie Petrologie</i> <b>32</b> (2024), 131                         |
| Aurivilliusite     | $\text{Hg}^{1+}\text{Hg}^{2+}\text{OI}$                                                               | A  | 2002-022  | USA                              | <i>Mineralogical Magazine</i> <b>68</b> (2004), 241                                                          | <i>Acta Crystallographica</i> <b>C41</b> (1985), 167                                 |

|                   |                                                                                                                                  |    |           |                 |                                                                                                                                        |                                                                                     |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------|----|-----------|-----------------|----------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Auropearceite     | [Ag <sub>9</sub> AuS <sub>4</sub> ][Ag <sub>6</sub> As <sub>2</sub> S <sub>7</sub> ]                                             | A  | 2024-025  | Slovakia        | <i>American Mineralogist</i> <b>111</b> (2026), 289                                                                                    |                                                                                     |
| Auropolybasite    | [Ag <sub>9</sub> AuS <sub>4</sub> ][Ag <sub>6</sub> Sb <sub>2</sub> S <sub>7</sub> ]                                             | A  | 2024-006  | Slovakia        | <i>American Mineralogist</i> <b>111</b> (2026), 289                                                                                    |                                                                                     |
| Aurorite          | Mn <sup>2+</sup> Mn <sup>4+</sup> <sub>3</sub> O <sub>7</sub> (H <sub>2</sub> O) <sub>3</sub>                                    | A  | 1966-031  | USA             | <i>Economic Geology</i> <b>62</b> (1967), 186                                                                                          |                                                                                     |
| Auroselenide      | AuSe                                                                                                                             | A  | 2022-052  | Russia          | <i>Mineralogical Magazine</i> <b>87</b> (2023), 284                                                                                    |                                                                                     |
| Aurostibite       | AuSb <sub>2</sub>                                                                                                                | G  | 1952      | Canada          | <i>American Mineralogist</i> <b>37</b> (1952), 461                                                                                     | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1990), 537                       |
| Austinite         | CaZn(AsO <sub>4</sub> )(OH)                                                                                                      | G  | 1935      | USA             | <i>American Mineralogist</i> <b>20</b> (1935), 112                                                                                     | <i>Mineralogical Magazine</i> <b>87</b> (2023), 659                                 |
| Autunite          | Ca(UO <sub>2</sub> ) <sub>2</sub> (PO <sub>4</sub> ) <sub>2</sub> (H <sub>2</sub> O) <sub>11</sub>                               | G  | 1852      | France          | Introduction to Mineralogy by Wm. Phillips, London (1852), 519                                                                         | <i>American Mineralogist</i> <b>88</b> (2003), 240                                  |
| Avdoninite        | K <sub>2</sub> Cu <sub>5</sub> Cl <sub>8</sub> (OH) <sub>4</sub> (H <sub>2</sub> O) <sub>2</sub>                                 | A  | 2005-046a | Russia          | <i>Zapiski Rossiyskogo Mineralogicheskogo Obshchestva</i> <b>135(3)</b> (2006), 38                                                     | <i>Zapiski Rossiyskogo Mineralogicheskogo Obshchestva</i> <b>144(3)</b> (2015), 55  |
| Averievite        | Cu <sub>5</sub> O <sub>2</sub> (VO <sub>4</sub> ) <sub>2</sub> ·CuCl <sub>2</sub>                                                | A  | 1995-027  | Russia          | <i>Doklady Rossiiskoi Akademii Nauk</i> <b>359</b> (1998), 804                                                                         | <i>Zapiski Rossiyskogo Mineralogicheskogo Obshchestva</i> <b>144(4)</b> (2015), 101 |
| Avicennite        | Tl <sub>2</sub> O <sub>3</sub>                                                                                                   | G  | 1958      | Uzbekistan      | <i>Doklady Akademii Nauk Uzbekistan SSR</i> <b>2</b> (1958), 23                                                                        | <i>Journal of Applied Physics</i> <b>116</b> (2014), 113521                         |
| Avogadrite        | KBF <sub>4</sub>                                                                                                                 | G  | 1926      | Italy           | <i>Rendiconti dell'Accademia Nazionale dei Lincei, Serie VI</i> <b>3</b> (1926), 644                                                   | <i>Acta Crystallographica</i> <b>B25</b> (1969), 2161                               |
| Awaruite          | Ni <sub>3</sub> Fe                                                                                                               | G  | 1885      | New Zealand     | <i>Transactions and Proceedings of the New Zealand Institute</i> <b>18</b> (1885), 401                                                 | <i>Canadian Mineralogist</i> <b>28</b> (1990), 751                                  |
| Axelite           | Na <sub>14</sub> Cu <sub>7</sub> (AsO <sub>4</sub> ) <sub>8</sub> F <sub>2</sub> Cl <sub>2</sub>                                 | A  | 2017-015a | Russia          | <i>Mineralogical Magazine</i> <b>87</b> (2023), 109                                                                                    |                                                                                     |
| Axinite-(Fe)      | Ca <sub>4</sub> Fe <sup>2+</sup> <sub>2</sub> Al <sub>4</sub> [B <sub>2</sub> Si <sub>8</sub> O <sub>30</sub> ](OH) <sub>2</sub> | Rn | 1968 s.p. | France          | <i>U.S. Geological Survey Bulletin</i> <b>490</b> (1911), 37                                                                           | <i>Journal of Mineralogical and Petrological Sciences</i> <b>115</b> (2020), 227    |
| Axinite-(Mg)      | Ca <sub>4</sub> Mg <sub>2</sub> Al <sub>4</sub> [B <sub>2</sub> Si <sub>8</sub> O <sub>30</sub> ](OH) <sub>2</sub>               | Rn | 1975-025  | Tanzania        | <i>Journal of Gemmology</i> <b>14</b> (1975), 368                                                                                      | <i>European Journal of Mineralogy</i> <b>12</b> (2000), 1185                        |
| Axinite-(Mn)      | Ca <sub>4</sub> Mn <sup>2+</sup> <sub>2</sub> Al <sub>4</sub> [B <sub>2</sub> Si <sub>8</sub> O <sub>30</sub> ](OH) <sub>2</sub> | Rn | 2004 s.p. | Germany         | <i>Tschermaks Mineralogische und Petrographische Mitteilungen</i> <b>28</b> (1909), 305                                                | <i>American Mineralogist</i> <b>89</b> (2004), 1763                                 |
| Azoproite         | Mg <sub>2</sub> (Ti <sub>0.5</sub> Mg <sub>0.5</sub> )O <sub>2</sub> (BO <sub>3</sub> )                                          | A  | 1970-021  | Russia          | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>99</b> (1970), 225                                                       | <i>Acta Crystallographica</i> <b>B78</b> (2022), 809                                |
| Azurite           | Cu <sub>3</sub> (CO <sub>3</sub> ) <sub>2</sub> (OH) <sub>2</sub>                                                                | G  | 1824      | France          | Traité Élémentaire de Minéralogie, 2nd ed. Verdière, Paris (1832), 373                                                                 | <i>Physical Review B</i> <b>83</b> (2011), 104401                                   |
| Babánekite        | Cu <sub>3</sub> (AsO <sub>4</sub> ) <sub>2</sub> (H <sub>2</sub> O) <sub>8</sub>                                                 | A  | 2012-007  | Czech Republic  | <i>Journal of Geosciences</i> <b>62</b> (2017), 261                                                                                    |                                                                                     |
| Babephite         | BaBe(PO <sub>4</sub> )F                                                                                                          | A  | 1966-003  | Russia          | <i>Doklady Akademii Nauk SSSR</i> <b>167</b> (1966), 895                                                                               | <i>Soviet Physics - Crystallography</i> <b>25</b> (1980), 28                        |
| Babingtonite      | Ca <sub>2</sub> Fe <sup>2+</sup> Fe <sup>3+</sup> Si <sub>5</sub> O <sub>14</sub> (OH)                                           | G  | 1824      | Norway          | <i>Annals of Philosophy</i> <b>7</b> (1824), 275                                                                                       | <i>Zeitschrift für Kristallographie</i> <b>135</b> (1972), 355                      |
| Babkinite         | Pb <sub>2</sub> Bi <sub>2</sub> (S,Se) <sub>3</sub>                                                                              | A  | 1994-030  | Russia          | <i>Doklady Akademii Nauk</i> <b>346</b> (1996), 656                                                                                    |                                                                                     |
| Babunaite-(Nd)    | Nd(AsO <sub>4</sub> )                                                                                                            | A  | 2025-032  | North Macedonia | <i>Mineralogical Magazine</i> <b>90</b> (2026), 615                                                                                    |                                                                                     |
| Bacaferriite      | BaCaFe <sub>4</sub> O <sub>8</sub>                                                                                               | A  | 2023-109  | Israel          | CNMNC Newsletter 78 - <i>Mineralogical Magazine</i> <b>88</b> (2024), 345; <i>European Journal of Mineralogy</i> <b>36</b> (2024), 361 |                                                                                     |
| Backite           | Pb <sub>2</sub> AlTeO <sub>6</sub> Cl                                                                                            | A  | 2013-113  | USA             | <i>Canadian Mineralogist</i> <b>52</b> (2014), 935                                                                                     |                                                                                     |
| Badakhshanite-(Y) | Y <sub>2</sub> Mn <sub>4</sub> Al(Si <sub>2</sub> B <sub>7</sub> BeO <sub>24</sub> )                                             | A  | 2018-085  | Tajikistan      | <i>Canadian Mineralogist</i> <b>58</b> (2020), 381                                                                                     |                                                                                     |
| Badalovite        | NaNaMg(MgFe <sup>3+</sup> )(AsO <sub>4</sub> ) <sub>3</sub>                                                                      | A  | 2016-053  | Russia          | <i>Mineralogical Magazine</i> <b>84</b> (2020), 616                                                                                    | <i>Mineralogical Magazine</i> <b>89</b> (2025), 526                                 |

|                      |                                                                                                                                                              |     |           |                |                                                                                                                                        |                                                                           |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|----------------|----------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|
| Baddeleyite          | ZrO <sub>2</sub>                                                                                                                                             | G   | 1893      | Sri Lanka      | <i>Mineralogical Magazine</i> <b>10</b> (1893), 148                                                                                    | <i>Acta Crystallographica</i> <b>B44</b> (1988), 116                      |
| Badengzhuite         | TiP                                                                                                                                                          | A   | 2019-076  | China          | <i>European Journal of Mineralogy</i> <b>32</b> (2020), 557                                                                            |                                                                           |
| Bafertisite          | Ba <sub>2</sub> Fe <sup>2+</sup> <sub>4</sub> Ti <sub>2</sub> (Si <sub>2</sub> O <sub>7</sub> ) <sub>2</sub> O <sub>2</sub> (OH) <sub>2</sub> F <sub>2</sub> | Rd  | 2016 s.p. | China          | <i>Science Record (Beijing)</i> <b>3</b> (1959), 652                                                                                   | <i>Canadian Mineralogist</i> <b>54</b> (2016), 49                         |
| Baghdadite           | Ca <sub>6</sub> Zr <sub>2</sub> (Si <sub>2</sub> O <sub>7</sub> ) <sub>2</sub> O <sub>4</sub>                                                                | A   | 1982-075  | Iraq           | <i>Mineralogical Magazine</i> <b>50</b> (1986), 119                                                                                    | <i>Periodico di Mineralogia</i> <b>79(3)</b> (2010), 1                    |
| Bahariyaite          | KMnO <sub>4</sub>                                                                                                                                            | A   | 2020-022  | Egypt          | CNMNC Newsletter 57 - <i>Mineralogical Magazine</i> <b>84</b> (2020), 791; <i>European Journal of Mineralogy</i> <b>32</b> (2020), 495 |                                                                           |
| Bahianite            | Al <sub>5</sub> Sb <sup>5+</sup> <sub>3</sub> O <sub>14</sub> (OH) <sub>2</sub>                                                                              | A   | 1974-027  | Brazil         | <i>Mineralogical Magazine</i> <b>42</b> (1978), 179                                                                                    | <i>Neues Jahrbuch für Mineralogie Abhandlungen</i> <b>126</b> (1976), 113 |
| Baiamareite          | Ag <sub>4</sub> Pb <sub>12</sub> Fe <sub>4</sub> Sb <sub>20</sub> S <sub>48</sub>                                                                            | A   | 2023-044  | Romania        | CNMNC Newsletter 75 - <i>Mineralogical Magazine</i> <b>87</b> (2023), 955; <i>European Journal of Mineralogy</i> <b>35</b> (2023), 891 |                                                                           |
| Baileychlore         | (Zn,Fe <sup>2+</sup> ,Al,Mg) <sub>6</sub> (Si,Al) <sub>4</sub> O <sub>10</sub> (OH) <sub>8</sub>                                                             | A   | 1986-056  | Australia      | <i>American Mineralogist</i> <b>73</b> (1988), 135                                                                                     | <i>Powder Diffraction</i> <b>32</b> (2017),118                            |
| Bainbridgeite-(NdCe) | Na <sub>2</sub> Ba <sub>2</sub> NdCe(CO <sub>3</sub> ) <sub>6</sub> (H <sub>2</sub> O) <sub>3</sub>                                                          | A   | 2023-018  | Canada         | CNMNC Newsletter 74 - <i>Mineralogical Magazine</i> <b>87</b> (2023), 783; <i>European Journal of Mineralogy</i> <b>35</b> (2023), 659 |                                                                           |
| Bainbridgeite-(YCe)  | Na <sub>2</sub> Ba <sub>2</sub> YCe(CO <sub>3</sub> ) <sub>6</sub> (H <sub>2</sub> O) <sub>3</sub>                                                           | A   | 2020-065  | Canada         | <i>European Journal of Mineralogy</i> <b>36</b> (2024), 183                                                                            |                                                                           |
| Bairdite             | Pb <sub>2</sub> Cu <sup>2+</sup> <sub>4</sub> Te <sup>6+</sup> <sub>2</sub> O <sub>10</sub> (OH) <sub>2</sub> (SO <sub>4</sub> )(H <sub>2</sub> O)           | A   | 2012-061  | USA            | <i>American Mineralogist</i> <b>98</b> (2013), 1315                                                                                    |                                                                           |
| Bakakinite           | Ca <sub>2</sub> V <sub>2</sub> O <sub>7</sub>                                                                                                                | A   | 2022-046  | Russia         | <i>Mineralogical Magazine</i> <b>87</b> (2023), 695                                                                                    |                                                                           |
| Bakhchisaraitsevite  | Na <sub>2</sub> Mg <sub>5</sub> (PO <sub>4</sub> ) <sub>4</sub> (H <sub>2</sub> O) <sub>6</sub> ·H <sub>2</sub> O                                            | A   | 1999-005  | Russia         | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (2000), 402                                                                          | <i>Canadian Mineralogist</i> <b>38</b> (2000), 831                        |
| Baksanite            | Bi <sub>6</sub> Te <sub>2</sub> S <sub>3</sub>                                                                                                               | A   | 1992-042  | Russia         | <i>Doklady Akademii Nauk</i> <b>347</b> (1996), 787                                                                                    | <i>Canadian Mineralogist</i> <b>41</b> (2003), 1475                       |
| Balangeroite         | Mg <sub>21</sub> Si <sub>8</sub> O <sub>27</sub> (OH) <sub>20</sub>                                                                                          | A   | 1982-002  | Italy          | <i>American Mineralogist</i> <b>68</b> (1983), 214                                                                                     | <i>Zeitschrift für Kristallographie</i> <b>227</b> (2012), 460            |
| Balestraite          | KLi <sub>2</sub> V <sup>5+</sup> Si <sub>4</sub> O <sub>12</sub>                                                                                             | A   | 2013-080  | Italy          | <i>American Mineralogist</i> <b>100</b> (2015), 608                                                                                    |                                                                           |
| Baličžuničite        | Bi <sub>2</sub> O(SO <sub>4</sub> ) <sub>2</sub>                                                                                                             | A   | 2012-098  | Italy          | <i>Mineralogical Magazine</i> <b>78</b> (2014), 1043                                                                                   | <i>Mineralogical Magazine</i> <b>79</b> (2015), 597                       |
| Balipholite          | LiBaMg <sub>2</sub> Al <sub>3</sub> (Si <sub>2</sub> O <sub>6</sub> ) <sub>2</sub> (OH) <sub>8</sub>                                                         | A ? | ?         | China          | <i>Scientia Geologica Sinica</i> <b>1</b> (1975), 100                                                                                  | <i>Ti Chih K'o Hsueh</i> (1977), 65                                       |
| Balkanite            | Ag <sub>5</sub> Cu <sub>9</sub> HgS <sub>8</sub>                                                                                                             | A   | 1971-009  | Bulgaria       | <i>American Mineralogist</i> <b>58</b> (1973), 11                                                                                      | <i>European Journal of Mineralogy</i> <b>29</b> (2017), 279               |
| Balliranoite         | (Na,K) <sub>6</sub> Ca <sub>2</sub> (Si <sub>6</sub> Al <sub>6</sub> O <sub>24</sub> )Cl <sub>2</sub> (CO <sub>3</sub> )                                     | A   | 2008-065  | Italy          | <i>European Journal of Mineralogy</i> <b>22</b> (2010), 113                                                                            | <i>Minerals</i> <b>13</b> (2023), 822                                     |
| Balyakinite          | Cu <sup>2+</sup> (Te <sup>4+</sup> O <sub>3</sub> )                                                                                                          | A   | 1980-001  | Russia         | <i>Doklady Akademii Nauk SSSR</i> <b>253</b> (1980), 1448                                                                              | <i>Acta Chemica Scandinavica</i> <b>26</b> (1972), 1423                   |
| Bambollaite          | Cu(Se,Te) <sub>2</sub>                                                                                                                                       | A   | 1965-014  | Mexico         | <i>Canadian Mineralogist</i> <b>11</b> (1972), 738                                                                                     |                                                                           |
| Bamfordite           | Fe <sup>3+</sup> Mo <sub>2</sub> O <sub>6</sub> (OH) <sub>3</sub> (H <sub>2</sub> O)                                                                         | A   | 1996-059  | Australia      | <i>American Mineralogist</i> <b>83</b> (1998), 172                                                                                     |                                                                           |
| Banalsite            | Na <sub>2</sub> BaAl <sub>4</sub> Si <sub>4</sub> O <sub>16</sub>                                                                                            | G   | 1944      | United Kingdom | <i>Mineralogical Magazine</i> <b>27</b> (1944), 33                                                                                     | <i>Canadian Mineralogist</i> <b>44</b> (2006), 533                        |
| Bandylite            | CuB(OH) <sub>4</sub> Cl                                                                                                                                      | G   | 1938      | Chile          | <i>American Mineralogist</i> <b>23</b> (1938), 85                                                                                      | <i>Canadian Mineralogist</i> <b>38</b> (2000), 713                        |
| Bannermanite         | (Na,K) <sub>x</sub> V <sup>4+</sup> <sub>x</sub> V <sup>5+</sup> <sub>6-x</sub> O <sub>15</sub> (0.5 < x < 0.9)                                              | A   | 1980-010  | El Salvador    | <i>American Mineralogist</i> <b>68</b> (1983), 634                                                                                     |                                                                           |
| Bannisterite         | CaMn <sup>2+</sup> <sub>10</sub> (Si <sub>14</sub> Al <sub>2</sub> )O <sub>38</sub> (OH) <sub>8</sub> ·nH <sub>2</sub> O                                     | A   | 1967-005  | United Kingdom | <i>Mineralogical Magazine</i> <b>36</b> (1968), 893                                                                                    | <i>Clays and Clay Minerals</i> <b>40</b> (1992), 129                      |
| Baotite              | Ba <sub>4</sub> (Ti,Nb,W) <sub>8</sub> Si <sub>4</sub> O <sub>28</sub> Cl                                                                                    | A   | 1962 s.p. | China          | <i>Soviet Physics - Crystallography</i> <b>5</b> (1960), 523                                                                           | <i>Soviet Physics - Crystallography</i> <b>14</b> (1969), 508             |
| Barahonaite-(Al)     | (Ca,Cu,Na,Fe <sup>3+</sup> ,Al) <sub>12</sub> Al <sub>2</sub> (AsO <sub>4</sub> ) <sub>8</sub> (OH,Cl) <sub>x</sub> ·nH <sub>2</sub> O                       | A   | 2006-051  | Spain          | <i>Canadian Mineralogist</i> <b>46</b> (2008), 205                                                                                     |                                                                           |
| Barahonaite-(Fe)     | (Ca,Cu,Na,Fe <sup>3+</sup> ,Al) <sub>12</sub> Fe <sup>3+</sup> <sub>2</sub> (AsO <sub>4</sub> ) <sub>8</sub> (OH,Cl) <sub>x</sub> ·nH <sub>2</sub> O         | A   | 2006-052  | Spain          | <i>Canadian Mineralogist</i> <b>46</b> (2008), 205                                                                                     |                                                                           |

|                       |                                                                                                |    |           |            |                                                                                                                                        |                                                                                        |
|-----------------------|------------------------------------------------------------------------------------------------|----|-----------|------------|----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
| Bararite              | $(\text{NH}_4)_2\text{SiF}_6$                                                                  | G  | 1951      | India      | Dana's System of Mineralogy, 7th ed., Vol. 2. Wiley, New York (1951), 106                                                              |                                                                                        |
| Baratovite            | $\text{KLi}_3\text{Ca}_7\text{Ti}_2(\text{SiO}_3)_{12}\text{F}_2$                              | A  | 1974-055  | Tajikistan | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>104</b> (1975), 580                                                      | <i>American Mineralogist</i> <b>64</b> (1979), 383                                     |
| Barberiite            | $(\text{NH}_4)\text{BF}_4$                                                                     | A  | 1993-008  | Italy      | <i>American Mineralogist</i> <b>79</b> (1994), 381                                                                                     | <i>Acta Crystallographica</i> <b>B27</b> (1971), 1102                                  |
| Barbosallite          | $\text{Fe}^{2+}\text{Fe}^{3+}_2(\text{PO}_4)_2(\text{OH})_2$                                   | G  | 1954      | Brazil     | <i>Science</i> <b>119</b> (1954), 739                                                                                                  | <i>Journal of Solid State Chemistry</i> <b>287</b> (2020), 121357                      |
| Barentsite            | $\text{Na}_7\text{Al}(\text{HCO}_3)_2(\text{CO}_3)_2\text{F}_4$                                | A  | 1982-101  | Russia     | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>112</b> (1983), 474                                                      | <i>Doklady Akademii Nauk SSSR</i> <b>273</b> (1983), 699                               |
| Bariandite            | $\text{Al}_{0.6}(\text{V}^{5+}, \text{V}^{4+})_8\text{O}_{20} \cdot 9\text{H}_2\text{O}$       | A  | 1970-043  | Gabon      | <i>Bulletin de la Société Française de Minéralogie et de Cristallographie</i> <b>94</b> (1971), 49                                     | <i>American Mineralogist</i> <b>75</b> (1990), 508                                     |
| Barićite              | $\text{Mg}_3(\text{PO}_4)_2(\text{H}_2\text{O})_8$                                             | A  | 1975-027  | Canada     | <i>Canadian Mineralogist</i> <b>14</b> (1976), 403                                                                                     | <i>Canadian Mineralogist</i> <b>39</b> (2001), 1317                                    |
| Barikaite             | $\text{Ag}_3\text{Pb}_{10}(\text{Sb}_8\text{As}_{11})\text{S}_{40}$                            | A  | 2012-055  | Iran       | <i>Mineralogical Magazine</i> <b>77</b> (2013), 3039                                                                                   | <i>Mineralogical Magazine</i> <b>77</b> (2013), 3093                                   |
| Barioferrite          | $\text{Ba}[\text{Fe}^{3+}_{12}\text{O}_{19}]$                                                  | A  | 2009-030  | Israel     | <i>Zapiski Rossiyskogo Mineralogicheskogo Obshchestva</i> <b>139(3)</b> (2010), 22                                                     | <i>Minerals</i> <b>8</b> (2018), 340                                                   |
| Bariolakargiite       | $\text{BaZrO}_3$                                                                               | A  | 2025-009  | Israel     | CNMNC Newsletter 85 - <i>Mineralogical Magazine</i> <b>89</b> (2025), 454; <i>European Journal of Mineralogy</i> <b>37</b> (2025), 337 |                                                                                        |
| Bario-oligite         | $\text{Na}(\text{Na}, \text{Sr}, \text{Ce})_2\text{Ba}(\text{PO}_4)_2$                         | A  | 2003-002  | Russia     | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>133(1)</b> (2004), 41                                                  | <i>Canadian Mineralogist</i> <b>43</b> (2005), 1521                                    |
| Bario-orthojoaquinite | $\text{Ba}_4\text{Fe}^{2+}_2\text{Ti}_2\text{O}_2(\text{SiO}_3)_8 \cdot \text{H}_2\text{O}$    | A  | 1979-081  | USA        | <i>American Mineralogist</i> <b>67</b> (1982), 809                                                                                     |                                                                                        |
| Barioperovskite       | $\text{BaTiO}_3$                                                                               | A  | 2006-040  | USA        | <i>American Mineralogist</i> <b>93</b> (2008), 154                                                                                     | <i>Journal of Applied Crystallography</i> <b>42</b> (2009), 480                        |
| Bariopharmacoalumite  | $\text{Ba}_{0.5}\text{Al}_4[(\text{AsO}_4)_3(\text{OH})_4] \cdot 4\text{H}_2\text{O}$          | A  | 2010-041  | France     | <i>Mineralogical Magazine</i> <b>75</b> (2011), 135                                                                                    | <i>Mineralogical Magazine</i> <b>78</b> (2014), 851                                    |
| Bariopharmacosiderite | $\text{Ba}_{0.5}\text{Fe}^{3+}_4(\text{AsO}_4)_3(\text{OH})_4 \cdot 5\text{H}_2\text{O}$       | Rd | 1994 s.p. | Germany    | <i>Tschermaks Mineralogische und Petrographische Mitteilungen</i> <b>11</b> (1966), 121                                                | <i>Canadian Mineralogist</i> <b>48</b> (2010), 1477                                    |
| Bariosincosite        | $\text{Ba}(\text{VO})_2(\text{PO}_4)_2 \cdot 4\text{H}_2\text{O}$                              | A  | 1998-047  | Australia  | <i>Mineralogical Magazine</i> <b>63</b> (1999), 735                                                                                    |                                                                                        |
| Barkovite             | $\text{Ni}_{1.5}\text{Sn}$                                                                     | A  | 2024-095  | Russia     | CNMNC Newsletter 85 - <i>Mineralogical Magazine</i> <b>89</b> (2025), 454; <i>European Journal of Mineralogy</i> <b>37</b> (2025), 337 |                                                                                        |
| Barlowite             | $\text{Cu}_4\text{BrF}(\text{OH})_6$                                                           | A  | 2010-020  | Australia  | <i>Mineralogical Magazine</i> <b>78</b> (2014), 1755                                                                                   |                                                                                        |
| Barnesite             | $\text{Na}_2\text{V}^{5+}_6\text{O}_{16} \cdot 3\text{H}_2\text{O}$                            | A  | 1967 s.p. | USA        | <i>American Mineralogist</i> <b>48</b> (1963), 1187                                                                                    | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>115</b> (1986), 345      |
| Barquillite           | $\text{Cu}_2\text{CdGeS}_4$                                                                    | A  | 1996-050  | Spain      | <i>European Journal of Mineralogy</i> <b>11</b> (1999), 111                                                                            |                                                                                        |
| Barrerite             | $\text{Na}_2(\text{Si}_7\text{Al}_2)\text{O}_{18} \cdot 6\text{H}_2\text{O}$                   | A  | 1974-017  | Italy      | <i>Mineralogical Magazine</i> <b>40</b> (1975), 208                                                                                    | <i>European Journal of Mineralogy</i> <b>12</b> (2000), 1123                           |
| Barringerite          | $(\text{Fe}, \text{Ni})_2\text{P}$                                                             | A  | 1968-037  | Bolivia    | <i>Science</i> <b>165</b> (1969), 169                                                                                                  | <i>Journal of Solid State Chemistry</i> <b>8</b> (1973), 57                            |
| Barroisite            | $\square(\text{NaCa})(\text{Mg}_3\text{Al}_2)(\text{Si}_7\text{Al})\text{O}_{22}(\text{OH})_2$ | Rd | 2012 s.p. | Austria    | <i>Comptes Rendus de l'Académie des Sciences de Paris</i> <b>175</b> (1922), 426                                                       | <i>Tschermaks Mineralogische und Petrographische Mitteilungen</i> <b>6</b> (1957), 215 |

|                      |                                                                                                                                 |    |           |                |                                                                                             |                                                                |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------|----|-----------|----------------|---------------------------------------------------------------------------------------------|----------------------------------------------------------------|
| Barronite            | $(\square_{0.5}\text{Ba}_{0.5})(\text{UO}_2)_2\text{Si}_5\text{O}_{12}(\text{OH})\cdot 2\text{H}_2\text{O}$                     | A  | 2024-053  | Germany        | <i>Mineralogical Magazine</i> <b>89</b> (2025), 638                                         |                                                                |
| Barrotite            | $\text{Cu}_9\text{Al}(\text{HSiO}_4)_2[(\text{SO}_4)(\text{HAsO}_4)_{0.5}](\text{OH})_{12}\cdot 8\text{H}_2\text{O}$            | A  | 2011-063a | France         | <i>Riviera Scientifique</i> <b>98</b> (2014), 3                                             |                                                                |
| Barrydawsonite-(Y)   | $\text{Na}_{1.5}\text{Y}_{0.5}\text{CaSi}_3\text{O}_9\text{H}$                                                                  | A  | 2014-042  | Canada         | <i>Mineralogical Magazine</i> <b>79</b> (2015), 671                                         |                                                                |
| Barstowite           | $\text{Pb}_4(\text{CO}_3)\text{Cl}_6(\text{H}_2\text{O})$                                                                       | A  | 1989-057  | United Kingdom | <i>Mineralogical Magazine</i> <b>55</b> (1991), 121                                         | <i>Zeitschrift für Kristallographie</i> <b>215</b> (2000), 110 |
| Bartelkeite          | $\text{PbFe}^{2+}\text{Ge}(\text{Ge}_2\text{O}_7)(\text{OH})_2(\text{H}_2\text{O})$                                             | A  | 1979-029  | Namibia        | <i>Chemie der Erde</i> <b>40</b> (1981), 201                                                | <i>American Mineralogist</i> <b>97</b> (2012), 1812            |
| Bartonite            | $\text{K}_6\text{Fe}_{20}\text{S}_{26}\text{S}$                                                                                 | A  | 1977-039  | USA            | <i>American Mineralogist</i> <b>66</b> (1981), 369                                          | <i>American Mineralogist</i> <b>66</b> (1981), 376             |
| Barwoodite           | $\text{Mn}^{2+}_6(\text{Nb}^{5+}, \square)_2(\text{SiO}_4)_2(\text{O}, \text{OH})_6$                                            | A  | 2017-046  | USA            | <i>Canadian Mineralogist</i> <b>56</b> (2018), 799                                          |                                                                |
| Barylite             | $\text{BaBe}_2\text{Si}_2\text{O}_7$                                                                                            | Rd | 2014 s.p. | Sweden         | <i>Geologiska Föreningens i Stockholm Förhandlingar</i> <b>3</b> (1876), 123                | <i>Mineralogical Magazine</i> <b>79</b> (2015), 145            |
| Barysilite           | $\text{Pb}_8\text{Mn}(\text{Si}_2\text{O}_7)_3$                                                                                 | G  | 1888      | Sweden         | <i>Öfversigt af Kongliga Vetenskaps-Akademiens Förhandlingar</i> <b>45</b> (1888), 7        | <i>Mineralogical Magazine</i> <b>66</b> (2002), 353            |
| Baryte               | $\text{Ba}(\text{SO}_4)$                                                                                                        | A  | 1971 s.p. | unknown        | Explication Morale du Jeu de Cartes. Bruxelles (1778), 99                                   | <i>Canadian Mineralogist</i> <b>15</b> (1977), 522             |
| Barytocalcite        | $\text{BaCa}(\text{CO}_3)_2$                                                                                                    | G  | 1824      | United Kingdom | <i>Annals of Philosophy</i> <b>8</b> (1824), 114                                            | <i>Scientific Reports</i> <b>12</b> (2022), 7413               |
| Barytolamprophyllite | $(\text{BaK})\text{Ti}_2\text{Na}_3\text{Ti}(\text{Si}_2\text{O}_7)_2\text{O}_2(\text{OH})_2$                                   | Rd | 2016 s.p. | Russia         | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>88</b> (1959), 713            | <i>Canadian Mineralogist</i> <b>46</b> (2008), 403             |
| Bassanite            | $\text{Ca}(\text{SO}_4)\cdot 0.5\text{H}_2\text{O}$                                                                             | G  | 1910      | Italy          | <i>Atti della Regia Accademia delle Scienze di Napoli, Ser. II</i> <b>14</b> (1910), 368 p. | <i>European Journal of Mineralogy</i> <b>13</b> (2001), 985    |
| Bassetite            | $\text{Fe}^{2+}(\text{UO}_2)_2(\text{PO}_4)_2(\text{H}_2\text{O})_{10}$                                                         | G  | 1915      | United Kingdom | <i>Mineralogical Magazine</i> <b>17</b> (1915), 221                                         | <i>European Journal of Mineralogy</i> <b>28</b> (2016), 663    |
| Bassoite             | $\text{SrV}^{4+}_3\text{O}_7(\text{H}_2\text{O})_4$                                                                             | A  | 2011-028  | Italy          | <i>Mineralogical Magazine</i> <b>75</b> (2011), 2677                                        |                                                                |
| Bastnäsite-(Ce)      | $\text{Ce}(\text{CO}_3)\text{F}$                                                                                                | Rn | 1966 s.p. | Sweden         | Manuels-Roret. Nouveau Manuel Complet de Minéralogie, Première Partie. Paris (1841), 296    | <i>American Mineralogist</i> <b>111</b> (2026), 961            |
| Bastnäsite-(La)      | $\text{La}(\text{CO}_3)\text{F}$                                                                                                | Rn | 1966 s.p. | Russia         | <i>Geokhimiya</i> <b>11</b> (1961), 1031                                                    |                                                                |
| Bastnäsite-(Nd)      | $\text{Nd}(\text{CO}_3)\text{F}$                                                                                                | A  | 2011-062  | Norway         | <i>European Journal of Mineralogy</i> <b>25</b> (2013), 187                                 |                                                                |
| Bastnäsite-(Y)       | $\text{Y}(\text{CO}_3)\text{F}$                                                                                                 | A  | 1987 s.p. | Kazakhstan     | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>99</b> (1970), 328            |                                                                |
| Batagayite           | $\text{CaZn}_2(\text{Zn}, \text{Cu})_6(\text{PO}_4)_4[\text{PO}_3(\text{OH})]_3(\text{H}_2\text{O})_9\cdot 3\text{H}_2\text{O}$ | A  | 2017-002  | Russia         | <i>Mineralogy and Petrology</i> <b>112</b> (2018), 591                                      |                                                                |
| Batievaite-(Y)       | $\text{Ca}_2\text{Y}_2[(\text{H}_2\text{O})_2\square]\text{Ti}(\text{Si}_2\text{O}_7)_2(\text{OH})_2(\text{H}_2\text{O})_2$     | Rd | 2015-016  | Russia         | <i>Mineralogy and Petrology</i> <b>110</b> (2016), 895                                      | <i>Minerals</i> <b>8</b> (2018), 458                           |
| Batiferrite          | $\text{Ba}[\text{Ti}_2\text{Fe}^{3+}_8\text{Fe}^{2+}_2]\text{O}_{19}$                                                           | A  | 1997-038  | Germany        | <i>Mineralogy and Petrology</i> <b>71</b> (2001), 1                                         |                                                                |
| Batisite             | $\text{Na}_2\text{BaTi}_2\text{O}_2(\text{Si}_2\text{O}_6)_2$                                                                   | A  | 1962 s.p. | Russia         | <i>Doklady Akademii Nauk SSSR</i> <b>133</b> (1960), 657                                    | <i>Mineralogy and Petrology</i> <b>111</b> (2017), 843         |
| Batisivite           | $\text{BaTi}_6(\text{V}, \text{Cr})_8(\text{Si}_2\text{O}_7)\text{O}_{22}$                                                      | A  | 2006-054  | Russia         | <i>Zapiski Rossiyskogo Mineralogicheskogo Obshchestva</i> <b>136(5)</b> (2007), 65          | <i>European Journal of Mineralogy</i> <b>20</b> (2008), 975    |
| Batoniite            | $\text{Al}_8(\text{SO}_4)_5(\text{OH})_{14}(\text{H}_2\text{O})_{18}\cdot 5\text{H}_2\text{O}$                                  | A  | 2023-008  | Italy          | <i>European Journal of Mineralogy</i> <b>35</b> (2023), 703                                 |                                                                |
| Baumhauerite         | $\text{Pb}_{12}\text{As}_{16}\text{S}_{36}$                                                                                     | G  | 1902      | Switzerland    | <i>Mineralogical Magazine</i> <b>13</b> (1902), 151                                         | <i>Zeitschrift für Kristallographie</i> <b>129</b> (1969), 178 |
| Baumhauerite II      | $\text{Pb}_3\text{As}_4\text{S}_9$                                                                                              | Q  | 1959      | Switzerland    | <i>Naturwissenschaften</i> <b>46</b> (1959), 72                                             |                                                                |

|                 |                                                                                                                  |    |           |                                  |                                                                                                                                                 |                                                                                           |
|-----------------|------------------------------------------------------------------------------------------------------------------|----|-----------|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
| Baumoite        | $\text{Ba}_{0.5}[(\text{UO}_2)_3\text{O}_8\text{Mo}_2(\text{OH})_3](\text{H}_2\text{O})_3$                       | A  | 2017-054  | Australia                        | <i>Mineralogical Magazine</i> <b>83</b> (2019), 507                                                                                             |                                                                                           |
| Baumstarkite    | $\text{Ag}_3\text{Sb}_3\text{S}_6$                                                                               | A  | 1999-049  | Peru                             | <i>American Mineralogist</i> <b>87</b> (2002), 753                                                                                              |                                                                                           |
| Bauranoite      | $\text{BaU}_2\text{O}_7 \cdot 4\text{-}5\text{H}_2\text{O}$                                                      | A  | 1971-052  | Russia                           | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>102</b> (1973), 75                                                                |                                                                                           |
| Bavenite        | $\text{Ca}_4\text{Be}_{2+x}\text{Al}_{2-x}\text{Si}_9\text{O}_{26-x}(\text{OH})_{2+x}$ ( $x = 0$ to $1$ )        | Rd | 2015 s.p. | Italy                            | <i>Atti della Reale Accademia dei Lincei, Rendiconti della Classe di Scienze Fisiche, Matematiche e Naturali, Serie V</i> <b>10</b> (1901), 139 | <i>Acta Crystallographica</i> <b>20</b> (1966), 301                                       |
| Bavsiite        | $\text{Ba}_2\text{V}_2\text{O}_2[\text{Si}_4\text{O}_{12}]$                                                      | A  | 2014-019  | Canada                           | <i>Mineralogical Magazine</i> <b>83</b> (2019), 821                                                                                             |                                                                                           |
| Bayanoboite-(Y) | $\text{Ba}_2\text{Y}(\text{CO}_3)_2\text{F}_3$                                                                   | A  | 2023-084  | China                            | CNMNC Newsletter 77 - <i>Mineralogical Magazine</i> <b>88</b> (2024), 203; <i>European Journal of Mineralogy</i> <b>36</b> (2024), 165          | <a href="https://doi.org/10.2138/am-2025-10008">https://doi.org/10.2138/am-2025-10008</a> |
| Bayerite        | $\text{Al}(\text{OH})_3$                                                                                         | G  | 1928      | Israel                           | <i>Zeitschrift für Anorganische und Allgemeine Chemie</i> <b>175</b> (1928), 249                                                                | <i>Zeitschrift für Kristallographie</i> <b>148</b> (1978), 255                            |
| Bayldonite      | $\text{Cu}_3\text{PbO}(\text{AsO}_3\text{OH})_2(\text{OH})_2$                                                    | G  | 1865      | United Kingdom                   | <i>Journal of the Chemical Society</i> <b>18</b> (1865), 259                                                                                    | <i>American Mineralogist</i> <b>66</b> (1981), 148                                        |
| Bayleyite       | $\text{Mg}_2(\text{UO}_2)(\text{CO}_3)_3(\text{H}_2\text{O})_{12} \cdot 6\text{H}_2\text{O}$                     | G  | 1951      | USA                              | <i>American Mineralogist</i> <b>36</b> (1951), 1                                                                                                | <i>Tschermaks Mineralogische und Petrographische Mitteilungen</i> <b>35</b> (1986), 133   |
| Baylissite      | $\text{K}_2\text{Mg}(\text{CO}_3)_2(\text{H}_2\text{O})_4$                                                       | A  | 1975-024  | Switzerland                      | <i>Schweizerische Mineralogische und Petrographische Mitteilungen</i> <b>56</b> (1976), 187                                                     | <i>Australian Journal of Chemistry</i> <b>30</b> (1977), 1379                             |
| Bazhenovite     | $\text{Ca}_8\text{S}_5(\text{S}_2\text{O}_3)(\text{OH})_{12}(\text{H}_2\text{O})_{16} \cdot 4\text{H}_2\text{O}$ | A  | 1986-053  | Russia                           | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>116</b> (1987), 737                                                               | <i>American Mineralogist</i> <b>90</b> (2005), 1556                                       |
| Bazirite        | $\text{BaZrSi}_3\text{O}_9$                                                                                      | A  | 1976-053  | United Kingdom                   | <i>Mineralogical Magazine</i> <b>42</b> (1978), 35                                                                                              |                                                                                           |
| Bazzite         | $\text{Be}_3\text{Sc}_2(\text{Si}_6\text{O}_{18})$                                                               | G  | 1915      | Italy                            | <i>Atti della Reale Accademia dei Lincei, Rendiconti della Classe di Scienze Fisiche, Matematiche e Naturali, Serie V</i> <b>24</b> (1915), 313 | <i>Canadian Journal of Mineralogy and Petrology</i> <b>62</b> (2024), 457                 |
| Bearsite        | $\text{Be}_2(\text{AsO}_4)(\text{OH})(\text{H}_2\text{O})_2 \cdot 2\text{H}_2\text{O}$                           | A  | 1967 s.p. | Kazakhstan                       | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>91</b> (1962), 442                                                                | <i>Inorganic Chemistry</i> <b>32</b> (1993), 2437                                         |
| Bearthite       | $\text{Ca}_2\text{Al}(\text{PO}_4)_2(\text{OH})$                                                                 | A  | 1986-050  | Italy / Switzerland              | <i>Schweizerische Mineralogische und Petrographische Mitteilungen</i> <b>73</b> (1993), 1                                                       | <i>Contributions to Mineralogy and Petrology</i> <b>121</b> (1995), 258                   |
| Beaverite-(Cu)  | $\text{Pb}(\text{Fe}^{3+}_2\text{Cu})(\text{SO}_4)_2(\text{OH})_6$                                               | Rd | 1987 s.p. | USA                              | <i>Journal of the Washington Academy of Sciences</i> <b>1</b> (1911), 26                                                                        | <i>Mineralogical Magazine</i> <b>74</b> (2010), 919                                       |
| Beaverite-(Zn)  | $\text{Pb}(\text{Fe}^{3+}_2\text{Zn})(\text{SO}_4)_2(\text{OH})_6$                                               | A  | 2010-086  | Japan                            | <i>Mineralogical Magazine</i> <b>75</b> (2011), 375                                                                                             |                                                                                           |
| Bechererite     | $\text{Zn}_7\text{Cu}(\text{OH})_{13}[\text{SiO}(\text{OH})_3(\text{SO}_4)]$                                     | A  | 1994-005  | USA                              | <i>American Mineralogist</i> <b>81</b> (1996), 244                                                                                              | <i>American Mineralogist</i> <b>82</b> (1997), 1014                                       |
| Beckettite      | $\text{Ca}_2\text{V}_6\text{Al}_6\text{O}_{20}$                                                                  | A  | 2015-001  | Mexico (meteorite)               | <i>Meteoritics &amp; Planetary Science</i> <b>56</b> (2021), 2265                                                                               |                                                                                           |
| Becquerelite    | $\text{Ca}(\text{UO}_2)_6\text{O}_4(\text{OH})_6(\text{H}_2\text{O})_8$                                          | G  | 1922      | Democratic Republic of the Congo | <i>Comptes Rendus de l'Académie des Sciences de Paris</i> <b>174</b> (1922), 1240                                                               | <i>American Mineralogist</i> <b>87</b> (2002), 550                                        |
| Bederite        | $\text{Ca}_2\text{Mn}^{2+}_4\text{Fe}^{3+}_2(\text{PO}_4)_6(\text{H}_2\text{O})_2$                               | A  | 1998-007  | Argentina                        | <i>American Mineralogist</i> <b>84</b> (1999), 1674                                                                                             |                                                                                           |
| Beershevaite    | $\text{CaFe}^{3+}_3(\text{PO}_4)_3\text{O}$                                                                      | A  | 2020-095a | Israel                           | CNMNC Newsletter 61 - <i>Mineralogical Magazine</i> <b>85</b> (2021), 459; <i>European Journal of Mineralogy</i> <b>33</b> (2021), 299          |                                                                                           |

|               |                                                                                                                                       |    |           |                |                                                                                                                                        |                                                                                       |
|---------------|---------------------------------------------------------------------------------------------------------------------------------------|----|-----------|----------------|----------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Béhierite     | Ta(BO <sub>4</sub> )                                                                                                                  | Rn | 1967 s.p. | Madagascar     | <i>Geological Society of America Annual Meetings, Abstr.</i> (1961), 111A                                                              |                                                                                       |
| Behoite       | Be(OH) <sub>2</sub>                                                                                                                   | A  | 1969-031  | USA            | <i>American Mineralogist</i> <b>55</b> (1970), 1                                                                                       | <i>Zeitschrift für Anorganische und Allgemeine Chemie</i> <b>631</b> (2005), 1247     |
| Béhounekite   | U(SO <sub>4</sub> ) <sub>2</sub> (H <sub>2</sub> O) <sub>4</sub>                                                                      | A  | 2010-046  | Czech Republic | <i>Mineralogical Magazine</i> <b>75</b> (2011), 2739                                                                                   |                                                                                       |
| Beidellite    | (Na,Ca) <sub>0.3</sub> Al <sub>2</sub> (Si,Al) <sub>4</sub> O <sub>10</sub> (OH) <sub>2</sub> ·nH <sub>2</sub> O                      | G  | 1925      | USA            | <i>Journal of the Washington Academy of Sciences</i> <b>15</b> (1925), 465                                                             | <i>American Mineralogist</i> <b>70</b> (1985), 1004                                   |
| Belakovskite  | Na <sub>7</sub> (UO <sub>2</sub> )(SO <sub>4</sub> ) <sub>4</sub> (SO <sub>3</sub> OH)(H <sub>2</sub> O) <sub>3</sub>                 | A  | 2013-075  | USA            | <i>Mineralogical Magazine</i> <b>78</b> (2014), 639                                                                                    |                                                                                       |
| Belendorffite | Cu <sub>7</sub> Hg <sub>6</sub>                                                                                                       | A  | 1989-024  | Germany        | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1992), 21                                                                           | <i>Acta Chemica Scandinavica</i> <b>23</b> (1969), 1181                               |
| Belkovite     | Ba <sub>3</sub> Nb <sub>6</sub> (Si <sub>2</sub> O <sub>7</sub> ) <sub>2</sub> O <sub>12</sub>                                        | A  | 1989-053  | Russia         | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1991), 23                                                                           |                                                                                       |
| Bellbergite   | (K,Ba,Sr) <sub>2</sub> Sr <sub>2</sub> Ca <sub>2</sub> (Ca,Na) <sub>4</sub> (Si,Al) <sub>36</sub> O <sub>72</sub> ·30H <sub>2</sub> O | A  | 1990-057  | Germany        | <i>Mineralogy and Petrology</i> <b>48</b> (1993), 147                                                                                  | <i>Microporous and Mesoporous Materials</i> <b>365</b> (2024), 112873                 |
| Bellidoite    | Cu <sub>2</sub> Se                                                                                                                    | A  | 1970-050  | Czech Republic | <i>Economic Geology</i> <b>70</b> (1975), 384                                                                                          |                                                                                       |
| Bellingerite  | Cu <sub>3</sub> (IO <sub>3</sub> ) <sub>6</sub> (H <sub>2</sub> O) <sub>2</sub>                                                       | G  | 1940      | Chile          | <i>American Mineralogist</i> <b>25</b> (1940), 505                                                                                     | <i>Acta Crystallographica</i> <b>B30</b> (1974), 965                                  |
| Belloite      | Cu(OH)Cl                                                                                                                              | A  | 1998-054  | Chile          | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (2000), 67                                                                           | <i>Monatshefte für Chemie</i> <b>115</b> (1984), 725                                  |
| Belmonteite   | CaMn <sub>2</sub> (AsO <sub>4</sub> ) <sub>2</sub> (H <sub>2</sub> O) <sub>6</sub> ·H <sub>2</sub> O                                  | A  | 2024-040  | Italy          | CNMNC Newsletter 81 - <i>Mineralogical Magazine</i> <b>88</b> (2024), 632; <i>European Journal of Mineralogy</i> <b>36</b> (2024), 917 |                                                                                       |
| Belogubite    | CuZn(SO <sub>4</sub> ) <sub>2</sub> (H <sub>2</sub> O) <sub>8</sub> ·H <sub>2</sub> O                                                 | A  | 2018-005  | Russia         | <i>Zapiski Rossiyskogo Mineralogicheskogo Obshchestva</i> <b>148(3)</b> (2019), 30                                                     |                                                                                       |
| Belomarinaite | KNa(SO <sub>4</sub> )                                                                                                                 | A  | 2017-069a | Russia         | <i>Mineralogical Magazine</i> <b>83</b> (2019), 569                                                                                    | <i>Canadian Mineralogist</i> <b>58</b> (2020), 167                                    |
| Belousovite   | KZn(SO <sub>4</sub> )Cl                                                                                                               | A  | 2016-047  | Russia         | <i>Mineralogical Magazine</i> <b>82</b> (2018), 1079                                                                                   |                                                                                       |
| Belovite-(Ce) | NaCeSr <sub>3</sub> (PO <sub>4</sub> ) <sub>3</sub> F                                                                                 | G  | 1954      | Russia         | <i>Doklady Akademii Nauk SSSR</i> <b>96</b> (1954), 613                                                                                | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>124(2)</b> (1995), 98 |
| Belovite-(La) | NaLaSr <sub>3</sub> (PO <sub>4</sub> ) <sub>3</sub> F                                                                                 | A  | 1995-023  | Russia         | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>125(3)</b> (1996), 101                                                 | <i>Doklady Physics</i> <b>355</b> (1997), 344                                         |
| Belyankinite  | Ca <sub>1-2</sub> (Ti,Zr,Nb) <sub>5</sub> O <sub>12</sub> ·9H <sub>2</sub> O (?)                                                      | Q  | 1950      | Russia         | <i>Doklady Akademii Nauk SSSR</i> <b>71</b> (1950), 925                                                                                |                                                                                       |
| Bementite     | Mn <sub>7</sub> Si <sub>6</sub> O <sub>15</sub> (OH) <sub>8</sub>                                                                     | Rd | 1963 s.p. | USA            | <i>Proceedings of the Academy of Natural Sciences of Philadelphia</i> 1887 (1888), 310                                                 | <i>American Mineralogist</i> <b>79</b> (1994), 91                                     |
| Benaute       | SrFe <sup>3+</sup> <sub>3</sub> (PO <sub>4</sub> )(PO <sub>3</sub> OH)(OH) <sub>6</sub>                                               | A  | 1995-001  | Germany        | <i>Chemie der Erde</i> <b>56</b> (1996), 171                                                                                           |                                                                                       |
| Benavidesite  | Pb <sub>4</sub> MnSb <sub>6</sub> S <sub>14</sub>                                                                                     | Rn | 1980-073  | Peru           | <i>Bulletin de Minéralogie</i> <b>105</b> (1982), 166                                                                                  | <i>Solid State Sciences</i> <b>5</b> (2003), 771                                      |
| Bendadaite    | Fe <sup>2+</sup> Fe <sup>3+</sup> <sub>2</sub> (AsO <sub>4</sub> ) <sub>2</sub> (OH) <sub>2</sub> (H <sub>2</sub> O) <sub>4</sub>     | A  | 1998-053a | Portugal       | <i>Mineralogical Magazine</i> <b>74</b> (2010), 469                                                                                    | <i>Bulletin Mineralogie Petrologie</i> <b>27</b> (2019), 63                           |
| Benitoite     | BaTiSi <sub>3</sub> O <sub>9</sub>                                                                                                    | G  | 1907      | USA            | <i>University of California Publications. Bulletin of the Department of Geology</i> <b>5</b> (1907), 149                               | <i>Zeitschrift für Kristallographie</i> <b>129</b> (1969), 222                        |
| Benjaminite   | Ag <sub>3</sub> Bi <sub>7</sub> S <sub>12</sub>                                                                                       | Rd | 1975-003a | USA            | <i>Canadian Mineralogist</i> <b>13</b> (1975), 402                                                                                     | <i>Canadian Mineralogist</i> <b>17</b> (1979), 607                                    |
| Benleonardite | Ag <sub>15</sub> Cu(Sb,As) <sub>2</sub> S <sub>7</sub> Te <sub>4</sub>                                                                | A  | 1985-043  | Mexico         | <i>Mineralogical Magazine</i> <b>50</b> (1986), 681                                                                                    | <i>Mineralogical Magazine</i> <b>79</b> (2015), 1213                                  |
| Bennesherrite | Ba <sub>2</sub> Fe <sup>2+</sup> Si <sub>2</sub> O <sub>7</sub>                                                                       | A  | 2019-068  | Israel         | <i>American Mineralogist</i> <b>107</b> (2022), 138                                                                                    | <i>Mineralogical Magazine</i> <b>86</b> (2022), 777                                   |
| Benstonite    | Ba <sub>6</sub> Ca <sub>6</sub> Mg(CO <sub>3</sub> ) <sub>13</sub>                                                                    | A  | 1967 s.p. | USA            | <i>American Mineralogist</i> <b>47</b> (1962), 585                                                                                     | <i>Neues Jahrbuch für Mineralogie Abhandlungen</i> <b>136</b> (1979), 326             |

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|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------|----|-----------|-----------------|----------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| Bentorite       | $\text{Ca}_6\text{Cr}_2(\text{SO}_4)_3(\text{OH})_{12} \cdot 26\text{H}_2\text{O}$                                                          | A  | 1979-042  | Israel          | <i>Israel Journal of Earth Sciences</i> <b>29</b> (1980), 81                                                                           | <i>Minerals</i> <b>10</b> (2020), 38                                                        |
| Benyacarite     | $(\text{H}_2\text{O})_2\text{Mn}_2(\text{Ti}_2\text{Fe}^{3+})(\text{PO}_4)_4(\text{OF})(\text{H}_2\text{O})_{10} \cdot 4\text{H}_2\text{O}$ | Rd | 1995-002  | Argentina       | <i>Canadian Mineralogist</i> <b>35</b> (1997), 707                                                                                     | <i>Zeitschrift für Kristallographie</i> <b>208</b> (1993), 57                               |
| Beraunite       | $\text{Fe}^{3+}_6(\text{PO}_4)_4\text{O}(\text{OH})_4(\text{H}_2\text{O})_4 \cdot 2\text{H}_2\text{O}$                                      | Rd | 2021 s.p. | Czech Republic  | <i>Journal für Praktische Chemie</i> <b>20</b> (1840), 66                                                                              | <i>European Journal of Mineralogy</i> <b>34</b> (2022), 223                                 |
| Berberite       | $\text{Be}_2(\text{BO}_3)(\text{OH})(\text{H}_2\text{O})$                                                                                   | A  | 1967-004  | Russia          | <i>Doklady Akademii Nauk SSSR</i> <b>174</b> (1967), 189                                                                               | <i>Journal of Physics and Chemistry of Solids</i> <b>189</b> (2024), 111944                 |
| Berdesinskiite  | $\text{V}^{3+}_2\text{TiO}_5$                                                                                                               | A  | 1980-036  | Kenya           | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1983), 110                                                                          | <i>European Journal of Mineralogy</i> <b>21</b> (2009), 885                                 |
| Berezanskite    | $\text{KTi}_2\text{Li}_3\text{Si}_{12}\text{O}_{30}$                                                                                        | A  | 1996-041  | Tajikistan      | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>126(4)</b> (1997), 75                                                  | <i>Mineralogical Magazine</i> <b>80</b> (2016), 733                                         |
| Bergbauerite    | $(\text{H}_2\text{O})_2\text{Mn}_2(\text{Fe}_2\text{Ti})(\text{PO}_4)_4(\text{OH})_2(\text{H}_2\text{O})_{10} \cdot 4\text{H}_2\text{O}$    | A  | 2025-033a | Germany         | CNMNC Newsletter 89 - <i>Mineralogical Magazine</i> <b>90</b> (2026), 481; <i>European Journal of Mineralogy</i> <b>38</b> (2026), 117 | <a href="https://doi.org/10.1180/mgm.2026.10213">https://doi.org/10.1180/mgm.2026.10213</a> |
| Bergenite       | $\text{Ca}_2\text{Ba}_4(\text{UO}_2)_9\text{O}_6(\text{PO}_4)_6(\text{H}_2\text{O})_{16}$                                                   | G  | 1959      | Germany         | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1959), 232                                                                          | <i>Canadian Mineralogist</i> <b>41</b> (2003), 91                                           |
| Bergslagite     | $\text{CaBe}(\text{AsO}_4)(\text{OH})$                                                                                                      | A  | 1983-021  | Sweden          | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1984), 257                                                                          | <i>Zeitschrift für Kristallographie</i> <b>166</b> (1984), 73                               |
| Berlinite       | $\text{Al}(\text{PO}_4)$                                                                                                                    | G  | 1868      | Sweden          | <i>Öfversigt af Kongliga Vetenskaps-Akademiens Förhandlingar</i> <b>25</b> (1868), 197                                                 | <i>American Mineralogist</i> <b>92</b> (2007), 1998                                         |
| Bermanite       | $\text{Mn}^{2+}\text{Mn}^{3+}_2(\text{PO}_4)_2(\text{OH})_2(\text{H}_2\text{O})_4$                                                          | G  | 1936      | USA             | <i>American Mineralogist</i> <b>21</b> (1936), 656                                                                                     | <i>American Mineralogist</i> <b>61</b> (1976), 1241                                         |
| Bernalite       | $\text{Fe}(\text{OH})_3$                                                                                                                    | A  | 1991-032  | Australia       | <i>American Mineralogist</i> <b>78</b> (1993), 827                                                                                     | <i>Mineralogical Magazine</i> <b>69</b> (2005), 309                                         |
| Bernardevansite | $\text{Al}_2(\text{SeO}_3)_3(\text{H}_2\text{O})_3 \cdot 3\text{H}_2\text{O}$                                                               | A  | 2022-057  | Bolivia         | <i>Mineralogical Magazine</i> <b>87</b> (2023), 407                                                                                    |                                                                                             |
| Bernardite      | $\text{TiAs}_5\text{S}_8$                                                                                                                   | A  | 1987-052  | North Macedonia | <i>Mineralogical Magazine</i> <b>53</b> (1989), 531                                                                                    |                                                                                             |
| Bernarlottiite  | $\text{Pb}_{12}(\text{As}_{10}\text{Sb}_6)\text{S}_{36}$                                                                                    | A  | 2013-133  | Italy           | <i>European Journal of Mineralogy</i> <b>29</b> (2017), 713                                                                            |                                                                                             |
| Berndlehmennite | $\text{Cu}(\text{CrV})\text{S}_4$                                                                                                           | A  | 2024-005  | China           | <i>American Mineralogist</i> <b>110</b> (2025), 1446                                                                                   |                                                                                             |
| Berndtite       | $\text{SnS}_2$                                                                                                                              | Rn | 1968 s.p. | Bolivia         | <i>Fortschritte der Mineralogie</i> <b>42</b> (1966), 211                                                                              | <i>American Mineralogist</i> <b>63</b> (1978), 289                                          |
| Bernwoodite     | $\text{Ca}_5\text{TiAl}_2\text{Si}_2\text{O}_{14}$                                                                                          | A  | 2025-072  | Brazil          | CNMNC Newsletter 91 - <i>Mineralogical Magazine</i> <b>90</b> (2026), xxx; <i>European Journal of Mineralogy</i> <b>38</b> (2026), 347 |                                                                                             |
| Berryite        | $\text{Cu}_3\text{Ag}_2\text{Pb}_3\text{Bi}_7\text{S}_{16}$                                                                                 | A  | 1965-013  | USA             | <i>Canadian Mineralogist</i> <b>8</b> (1966), 407                                                                                      | <i>Canadian Mineralogist</i> <b>44</b> (2006), 465                                          |
| Berthierine     | $(\text{Fe}^{2+}, \text{Fe}^{3+}, \text{Al})_3(\text{Si}, \text{Al})_2\text{O}_5(\text{OH})_4$                                              | G  | 1832      | France          | Traité Élémentaire de Minéralogie, 2nd ed. Verdrière, Paris (1832), 128                                                                | <i>Minerals</i> <b>15</b> (2025), 13                                                        |
| Berthierite     | $\text{FeSb}_2\text{S}_4$                                                                                                                   | G  | 1827      | France          | <i>Edinburgh Journal of Science</i> <b>7</b> (1827), 353                                                                               | <i>Journal of Solid State Chemistry</i> <b>162</b> (2001), 79                               |
| Bertossaite     | $\text{Li}_2\text{CaAl}_4(\text{PO}_4)_4(\text{OH})_4$                                                                                      | A  | 1965-038  | Rwanda          | <i>Canadian Mineralogist</i> <b>8</b> (1966), 668                                                                                      | <i>Canadian Mineralogist</i> <b>49</b> (2011), 1079                                         |
| Bertrandite     | $\text{Be}_4\text{Si}_2\text{O}_7(\text{OH})_2$                                                                                             | G  | 1878      | France          | <i>Bulletin de la Société Minéralogique de France</i> <b>6</b> (1883), 252                                                             | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1992), 13                                |
| Beryl           | $\text{Be}_3\text{Al}_2(\text{Si}_6\text{O}_{18})$                                                                                          | G  | ?         | unknown         | original paper?                                                                                                                        | <i>European Journal of Mineralogy</i> <b>36</b> (2024), 449                                 |
| Beryllite       | $\text{Be}_3(\text{SiO}_4)(\text{OH})_2 \cdot \text{H}_2\text{O}$                                                                           | G  | 1954      | Russia          | <i>Doklady Akademii Nauk SSSR</i> <b>99</b> (1954), 451                                                                                |                                                                                             |

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| Beryllonite       | NaBe(PO <sub>4</sub> )                                                                                                                                                                                               | G  | 1888      | USA            | <i>American Journal of Science</i> <b>136</b> (1888), 290                                                                              | <i>Neues Jahrbuch für Mineralogie Abhandlungen</i> <b>197</b> (2021), 107 |
| Berzelianite      | Cu <sub>2-x</sub> Se (x ≈ 0.12)                                                                                                                                                                                      | G  | 1832      | Sweden         | Traité Élémentaire de Minéralogie, 2nd ed. Verdière, Paris (1832), 534                                                                 | <i>Journal of Solid State Chemistry</i> <b>93</b> (1991), 202             |
| Berzeliite        | (NaCa <sub>2</sub> )Mg <sub>2</sub> (AsO <sub>4</sub> ) <sub>3</sub>                                                                                                                                                 | G  | 1840      | Sweden         | <i>Annalen der Chemie und Pharmacie</i> <b>34</b> (1840), 211                                                                          | <i>Mineralogical Magazine</i> <b>76</b> (2012), 1081                      |
| Beshtauite        | (NH <sub>4</sub> ) <sub>2</sub> (UO <sub>2</sub> )(SO <sub>4</sub> ) <sub>2</sub> (H <sub>2</sub> O)·H <sub>2</sub> O                                                                                                | A  | 2012-051  | Russia         | <i>American Mineralogist</i> <b>99</b> (2014), 1783                                                                                    |                                                                           |
| Betekhtinite      | (Cu,Fe) <sub>21</sub> Pb <sub>2</sub> S <sub>15</sub>                                                                                                                                                                | G  | 1955      | Germany        | <i>Geologie</i> <b>4</b> (1955), 535                                                                                                   | <i>Acta Crystallographica</i> <b>12</b> (1959), 646                       |
| Betpakdalite-CaCa | [Ca <sub>2</sub> (H <sub>2</sub> O) <sub>17</sub> Ca(H <sub>2</sub> O) <sub>6</sub> ][Mo <sup>6+</sup> <sub>8</sub> As <sup>5+</sup> <sub>2</sub> Fe <sup>3+</sup> <sub>3</sub> O <sub>36</sub> (OH)]                | Rd | 1967 s.p. | Kazakhstan     | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>90</b> (1961), 425                                                       | <i>Canadian Mineralogist</i> <b>37</b> (1999), 61                         |
| Betpakdalite-CaMg | [Ca <sub>2</sub> (H <sub>2</sub> O) <sub>17</sub> Mg(H <sub>2</sub> O) <sub>6</sub> ][Mo <sup>6+</sup> <sub>8</sub> As <sup>5+</sup> <sub>2</sub> Fe <sup>3+</sup> <sub>3</sub> O <sub>36</sub> (OH)]                | A  | 2011-034  | Namibia        | <i>Mineralogical Magazine</i> <b>76</b> (2012), 1175                                                                                   |                                                                           |
| Betpakdalite-FeFe | [Fe <sup>3+</sup> <sub>2</sub> (H <sub>2</sub> O) <sub>15</sub> (OH) <sub>2</sub> Fe <sup>3+</sup> (H <sub>2</sub> O) <sub>6</sub> ][Mo <sub>8</sub> As <sub>2</sub> Fe <sup>3+</sup> <sub>3</sub> O <sub>37</sub> ] | A  | 2017-011  | Australia      | CNMNC Newsletter 37 - <i>Mineralogical Magazine</i> <b>81</b> (2017), 737; <i>European Journal of Mineralogy</i> <b>29</b> (2017), 529 |                                                                           |
| Betpakdalite-NaCa | [Na <sub>2</sub> (H <sub>2</sub> O) <sub>17</sub> Ca(H <sub>2</sub> O) <sub>6</sub> ][Mo <sup>6+</sup> <sub>8</sub> As <sup>5+</sup> <sub>2</sub> Fe <sup>3+</sup> <sub>3</sub> O <sub>34</sub> (OH) <sub>3</sub> ]  | Rn | 1971-057  | Kazakhstan     | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>100</b> (1971), 603                                                      |                                                                           |
| Betpakdalite-NaNa | [Na <sub>2</sub> (H <sub>2</sub> O) <sub>16</sub> Na(H <sub>2</sub> O) <sub>6</sub> ][Mo <sup>6+</sup> <sub>8</sub> As <sup>5+</sup> <sub>2</sub> Fe <sup>3+</sup> <sub>3</sub> O <sub>33</sub> (OH) <sub>4</sub> ]  | A  | 2011-078  | Chile          | <i>Mineralogical Magazine</i> <b>76</b> (2012), 1175                                                                                   |                                                                           |
| Bettertonite      | Al <sub>6</sub> (AsO <sub>4</sub> ) <sub>3</sub> (OH) <sub>9</sub> (H <sub>2</sub> O) <sub>5</sub> ·11H <sub>2</sub> O                                                                                               | A  | 2014-074  | United Kingdom | <i>Mineralogical Magazine</i> <b>79</b> (2015), 1849                                                                                   |                                                                           |
| Betzite           | Na <sub>6</sub> Ca <sub>2</sub> (Al <sub>6</sub> Si <sub>6</sub> O <sub>24</sub> )Cl <sub>4</sub>                                                                                                                    | A  | 2021-037  | Germany        | <i>Canadian Journal of Mineralogy and Petrology</i> <b>61</b> (2023), 177                                                              |                                                                           |
| Beudantite        | PbFe <sup>3+</sup> <sub>3</sub> (AsO <sub>4</sub> )(SO <sub>4</sub> )(OH) <sub>6</sub>                                                                                                                               | Rd | 1987 s.p. | Germany        | <i>Annals of Philosophy</i> <b>11</b> (1826), 194                                                                                      | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1989), 27              |
| Beusite           | Mn <sup>2+</sup> Mn <sup>2+</sup> <sub>2</sub> (PO <sub>4</sub> ) <sub>2</sub>                                                                                                                                       | A  | 1968-012  | Argentina      | <i>American Mineralogist</i> <b>53</b> (1968), 1799                                                                                    | <i>Canadian Mineralogist</i> <b>51</b> (2013), 653                        |
| Beusite-(Ca)      | CaMn <sup>2+</sup> <sub>2</sub> (PO <sub>4</sub> ) <sub>2</sub>                                                                                                                                                      | A  | 2017-051  | Canada         | <i>Mineralogical Magazine</i> <b>82</b> (2018), 1323                                                                                   |                                                                           |
| Beyerite          | CaBi <sub>2</sub> O <sub>2</sub> (CO <sub>3</sub> ) <sub>2</sub>                                                                                                                                                     | G  | 1943      | Germany        | <i>American Mineralogist</i> <b>28</b> (1943), 521                                                                                     | <i>Canadian Mineralogist</i> <b>40</b> (2002), 693                        |
| Bezsmertnovite    | (Au,Ag) <sub>4</sub> Cu(Te,Pb)                                                                                                                                                                                       | A  | 1979-014  | Kazakhstan     | <i>Doklady Akademii Nauk SSSR</i> <b>249</b> (1979), 185                                                                               |                                                                           |
| Biachellaite      | (Na,Ca,K) <sub>8</sub> (Si <sub>6</sub> Al <sub>6</sub> O <sub>24</sub> )(SO <sub>4</sub> ) <sub>2</sub> (OH) <sub>0.5</sub> ·H <sub>2</sub> O                                                                       | A  | 2007-044  | Italy          | <i>Zapiski Rossiyskogo Mineralogicheskogo Obshchestva</i> <b>137(3)</b> (2008), 57                                                     | <i>Crystallography Reports</i> <b>53</b> (2008), 981                      |
| Biagioniite       | Ti <sub>2</sub> SbS <sub>2</sub>                                                                                                                                                                                     | A  | 2019-120  | Canada         | <i>Mineralogical Magazine</i> <b>84</b> (2020), 390                                                                                    |                                                                           |
| Bianchiniite      | Ba <sub>2</sub> (Ti <sup>4+</sup> V <sup>3+</sup> )(As <sub>2</sub> O <sub>5</sub> ) <sub>2</sub> OF                                                                                                                 | A  | 2019-022  | Italy          | <i>Mineralogical Magazine</i> <b>85</b> (2021), 354                                                                                    |                                                                           |
| Bianchite         | Zn(SO <sub>4</sub> )(H <sub>2</sub> O) <sub>6</sub>                                                                                                                                                                  | G  | 1930      | Italy          | <i>Rendiconti dell'Accademia Nazionale dei Lincei, Serie VI</i> <b>41</b> (1930), 760                                                  |                                                                           |
| Bicapite          | KNa <sub>2</sub> Mg <sub>2</sub> (H <sub>2</sub> PV <sup>5+</sup> <sub>14</sub> O <sub>42</sub> )(H <sub>2</sub> O) <sub>25</sub>                                                                                    | A  | 2018-048  | USA            | <i>American Mineralogist</i> <b>104</b> (2019), 1851                                                                                   |                                                                           |
| Bicchulite        | Ca <sub>2</sub> Al <sub>2</sub> SiO <sub>6</sub> (OH) <sub>2</sub>                                                                                                                                                   | A  | 1973-006  | Japan          | <i>Mineralogical Journal</i> <b>7</b> (1973), 243                                                                                      | <i>Zeitschrift für Kristallographie</i> <b>152</b> (1980), 13             |
| Bideauxite        | AgPb <sub>2</sub> F <sub>2</sub> Cl <sub>3</sub>                                                                                                                                                                     | A  | 1969-038  | USA            | <i>Mineralogical Magazine</i> <b>37</b> (1970), 637                                                                                    | <i>Canadian Mineralogist</i> <b>37</b> (1999), 915                        |
| Bieberite         | Co(SO <sub>4</sub> )(H <sub>2</sub> O) <sub>6</sub> ·H <sub>2</sub> O                                                                                                                                                | G  | 1845      | Germany        | Handbuch der Bestimmenden Mineralogie. Braumüller and Seidel, Wien (1845), 487                                                         | <i>American Mineralogist</i> <b>92</b> (2007), 532                        |
| Biehlite          | Sb <sup>3+</sup> <sub>2</sub> MoO <sub>6</sub>                                                                                                                                                                       | A  | 1999-019a | Namibia        | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (2000), 234                                                                          | <i>Zeitschrift für Kristallographie</i> <b>215</b> (2000), 529            |
| Bigcreekite       | BaSi <sub>2</sub> O <sub>5</sub> (H <sub>2</sub> O) <sub>4</sub>                                                                                                                                                     | A  | 1999-015  | USA            | <i>Canadian Mineralogist</i> <b>39</b> (2001), 761                                                                                     |                                                                           |

|                  |                                                              |    |           |                                  |                                                                                                                                                                              |                                                                        |
|------------------|--------------------------------------------------------------|----|-----------|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|
| Bijvoetite-(Y)   | $Y_8(VO_2)_{16}O_8(CO_3)_{16}(OH)_8(H_2O)_{25} \cdot 14H_2O$ | Rn | 1987 s.p. | Democratic Republic of the Congo | <i>Canadian Mineralogist</i> <b>20</b> (1982), 231                                                                                                                           | <i>Canadian Mineralogist</i> <b>38</b> (2000), 153                     |
| Bikitaite        | $LiAlSi_2O_6 \cdot H_2O$                                     | A  | 1997 s.p. | Zimbabwe                         | <i>American Mineralogist</i> <b>42</b> (1957), 792                                                                                                                           | <i>European Journal of Mineralogy</i> <b>15</b> (2003), 247            |
| Bilibinskite     | $PbAu_3Cu_2Te_2$                                             | A  | 1977-024  | Russia / Kazakhstan              | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>107</b> (1978), 310                                                                                            | <i>Novye dannye o Mineralakh</i> <b>37</b> (1991), 138                 |
| Bilinite         | $Fe^{2+}Fe^{3+}_2(SO_4)_4(H_2O)_{17} \cdot 5H_2O$            | G  | 1913      | Czech Republic                   | <i>Sbornik Klubu prirodovědeckého</i> <b>2</b> (1913)                                                                                                                        |                                                                        |
| Billietite       | $Ba(UO_2)_6O_4(OH)_6(H_2O)_8$                                | G  | 1947      | Democratic Republic of the Congo | <i>Annales de la Société Géologique Belge</i> <b>70</b> (1947), B212                                                                                                         | <i>Canadian Mineralogist</i> <b>44</b> (2006), 1197                    |
| Billingsleyite   | $Ag_7AsS_6$                                                  | A  | 1967-012  | USA                              | <i>American Mineralogist</i> <b>53</b> (1968), 1791                                                                                                                          | <i>Canadian Mineralogist</i> <b>48</b> (2010), 155                     |
| Billwiseite      | $Sb^{3+}_5Nb_3WO_{18}$                                       | A  | 2010-053  | Pakistan                         | <i>Canadian Mineralogist</i> <b>50</b> (2012), 805                                                                                                                           |                                                                        |
| Bimbowrieite     | $NaMgFe^{3+}_5(PO_4)_4(OH)_6(H_2O)_2$                        | A  | 2020-006  | Australia                        | <i>Mineralogical Magazine</i> <b>88</b> (2024), 90                                                                                                                           |                                                                        |
| Bindheimite      | $Pb_2Sb^{5+}_2O_7$                                           | Q  | 2013 s.p. | Russia                           | A System of Mineralogy, 5th ed. Wiley, New York (1868), 591                                                                                                                  |                                                                        |
| Biphosphammite   | $H_2(NH_4)(PO_4)$                                            | G  | 1870      | Australia                        | <i>The Rural Carolinian</i> <b>1</b> (1870), 469                                                                                                                             | <i>Mineralogical Magazine</i> <b>38</b> (1972), 965                    |
| Biraite-(Ce)     | $Ce_2Fe^{2+}(CO_3)(Si_2O_7)$                                 | A  | 2003-037  | Russia                           | <i>European Journal of Mineralogy</i> <b>17</b> (2005), 715                                                                                                                  |                                                                        |
| Biraite-(La)     | $La_2Fe^{2+}(CO_3)(Si_2O_7)$                                 | A  | 2020-020  | Russia                           | <i>Mineralogical Magazine</i> <b>85</b> (2021), 772                                                                                                                          |                                                                        |
| Birchite         | $Cd_2Cu_2(PO_4)_2(SO_4)(H_2O)_4 \cdot H_2O$                  | A  | 2006-048  | Australia                        | <i>American Mineralogist</i> <b>93</b> (2008), 910                                                                                                                           |                                                                        |
| Biringuccite     | $Na_2B_5O_8(OH)(H_2O)$                                       | A  | 1967 s.p. | Italy                            | <i>Accademia Nazionale dei Lincei, Rendiconti della Classe di Scienze Fisiche, Matematiche e Naturali, Serie VIII</i> <b>30</b> (1961) 74                                    | <i>American Mineralogist</i> <b>59</b> (1974), 1005                    |
| Birnessite       | $(Na,Ca,K)_{0.6}(Mn^{4+},Mn^{3+})_2O_4(H_2O)_{1.5}$          | G  | 1956      | United Kingdom                   | <i>Mineralogical Magazine</i> <b>31</b> (1956), 283                                                                                                                          | <i>American Mineralogist</i> <b>92</b> (2007), 771                     |
| Birunite         | $Ca_{18}(SiO_3)_{8.5}(CO_3)_{8.5}(SO_4) \cdot 15H_2O$        | Q  | 1957      | Uzbekistan                       | <i>Doklady Akademii Nauk Uzbekistan SSR</i> <b>12</b> (1957), 17                                                                                                             |                                                                        |
| Bischofite       | $MgCl_2(H_2O)_6$                                             | G  | 1877      | Germany                          | Die Bildung der Steinsalzlager und ihrer Mutterlaugensalze unter specieller Berücksichtigung der Flöze von Douglasshall in der Egeln'schen Mulde. Pfeffer, Halle (1877), 156 | <i>Acta Crystallographica</i> <b>C41</b> (1985), 8                     |
| Bismite          | $Bi_2O_3$                                                    | G  | 1868      | Bolivia                          | A System of Mineralogy, 5th ed. Wiley, New York (1868), 185                                                                                                                  | <i>Acta Chemica Scandinavica</i> <b>24</b> (1970), 384                 |
| Bismoclite       | $BiOCl$                                                      | G  | 1935      | South Africa                     | <i>Mineralogical Magazine</i> <b>24</b> (1935), 59                                                                                                                           | <i>Zeitschrift für Kristallographie</i> <b>205</b> (1993), 35          |
| Bismuth          | Bi                                                           | G  | 1546      | Germany                          | De natura fossilium, Libri X: Die Mineralien. Froben, Basel (1546), 339                                                                                                      | <i>Journal of the Physical Society of Japan</i> <b>51</b> (1982), 3826 |
| Bismuthinite     | $Bi_2S_3$                                                    | G  | 1832      | unknown                          | Traité Élémentaire de Minéralogie, 2nd ed. Verdière, Paris (1832), 418                                                                                                       | <i>Physics and Chemistry of Minerals</i> <b>32</b> (2005), 578         |
| Bismutite        | $Bi_2O_2(CO_3)$                                              | G  | 1841      | Germany                          | <i>Annalen der Physik und Chemie</i> <b>23</b> (1841), 627                                                                                                                   | <i>Canadian Mineralogist</i> <b>40</b> (2002), 693                     |
| Bismutocolumbite | $BiNbO_4$                                                    | A  | 1991-003  | Russia                           | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>121(3)</b> (1992), 130                                                                                       | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (2002), 145          |
| Bismutoferrite   | $Fe^{3+}_2Bi(Si_2O_5)O_3(OH)$                                | G  | 1871      | Germany                          | <i>Journal für Praktische Chemie</i> <b>4</b> (1871), 353                                                                                                                    | <i>Soviet Physics - Crystallography</i> <b>22</b> (1977), 419          |

|                      |                                                                                                                                                                              |    |           |                |                                                                                                                                        |                                                                                             |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----------|----------------|----------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| Bismutohauchecornite | $\text{Ni}_9\text{Bi}_2\text{S}_8$                                                                                                                                           | A  | 1978 s.p. | Russia         | <i>Trudy Mineralogicheskogo Muzeya Akademiyi Nauk SSSR</i> <b>26</b> (1978), 201                                                       | <i>Mineralogical Magazine</i> <b>43</b> (1980), 873                                         |
| Bismutostibiconite   | $(\text{Bi}, \text{Fe}^{3+}, \square)_2\text{Sb}^{5+}_2\text{O}_7$                                                                                                           | Q  | 2013 s.p. | Germany        | <i>Chemie der Erde</i> <b>42</b> (1983), 77                                                                                            |                                                                                             |
| Bismutotantalite     | $\text{BiTaO}_4$                                                                                                                                                             | G  | 1929      | Uganda         | <i>Mineralogical Magazine</i> <b>22</b> (1929), 185                                                                                    | <i>Canadian Mineralogist</i> <b>39</b> (2001), 103                                          |
| Bitikleite           | $\text{Ca}_3(\text{SbSn})(\text{AlO}_4)_3$                                                                                                                                   | Rn | 2009-052  | Russia         | <i>American Mineralogist</i> <b>95</b> (2010), 959                                                                                     |                                                                                             |
| Bityite              | $\text{CaLiAl}_2(\text{Si}_2\text{BeAl})\text{O}_{10}(\text{OH})_2$                                                                                                          | A  | 1998 s.p. | Madagascar     | <i>Comptes Rendus Hebdomadaires des Séances de l'Académie des Sciences</i> <b>146</b> (1908), 1367                                     | <i>American Mineralogist</i> <b>68</b> (1983), 130                                          |
| Bixbyite-(Fe)        | $(\text{Fe}, \text{Mn})_2\text{O}_3$                                                                                                                                         | Rd | 2021 s.p. | USA            | <i>American Journal of Science</i> <b>154</b> (1897), 105                                                                              | <i>Physical Review B</i> <b>100</b> (2019), 144404                                          |
| Bixbyite-(Mn)        | $\text{Mn}_2\text{O}_3$                                                                                                                                                      | Rd | 2021 s.p. | India          | <i>Records of the Geological Survey of India</i> <b>37</b> (1908), 199                                                                 | <i>Journal of Solid State Chemistry</i> <b>181</b> (2008), 2250                             |
| Bjarebyite           | $\text{BaMn}^{2+}_2\text{Al}_2(\text{PO}_4)_3(\text{OH})_3$                                                                                                                  | A  | 1972-022  | USA            | <i>Mineralogical Record</i> <b>4</b> (1973), 282                                                                                       | <i>Canadian Mineralogist</i> <b>54</b> (2016), 1033                                         |
| Blakeite             | $\text{Fe}^{3+}_2(\text{Te}^{4+}\text{O}_3)_3$ (?)                                                                                                                           | Q  | 1944      | USA            | <i>American Mineralogist</i> <b>29</b> (1944), 211                                                                                     |                                                                                             |
| Blatonite            | $(\text{UO}_2)(\text{CO}_3) \cdot \text{H}_2\text{O}$                                                                                                                        | A  | 1997-025  | USA            | <i>Canadian Mineralogist</i> <b>36</b> (1998), 1077                                                                                    |                                                                                             |
| Blatterite           | $\text{Sb}^{5+}_3\text{Mn}^{3+}_9\text{Mn}^{2+}_{35}\text{O}_{32}(\text{BO}_3)_{16}$                                                                                         | A  | 1984-038  | Sweden         | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1988), 121                                                                          | <i>Canadian Mineralogist</i> <b>36</b> (1998), 1171                                         |
| Bleasdaleite         | $\text{Ca}_2\text{Cu}_5(\text{Bi}, \text{Cu})(\text{PO}_4)_4(\text{H}_2\text{O}, \text{OH}, \text{Cl})_{13}$                                                                 | A  | 1998-003a | Australia      | <i>Australian Journal of Mineralogy</i> <b>5</b> (1999), 69                                                                            |                                                                                             |
| Blixite              | $\text{Pb}_8\text{O}_5(\text{OH})_2\text{Cl}_4$                                                                                                                              | A  | 1962 s.p. | Sweden         | <i>Arkiv för Mineralogi och Geologi</i> <b>2</b> (1958), 411                                                                           | <i>Canadian Mineralogist</i> <b>44</b> (2006), 515                                          |
| Blödite              | $\text{Na}_2\text{Mg}(\text{SO}_4)_2(\text{H}_2\text{O})_4$                                                                                                                  | A  | 1982 s.p. | Austria        | Chemische Untersuchungen mineralischer, vegetabilischer und animalischer Substanzen. Maurerschen, Berlin (1821), 240                   | <i>Canadian Mineralogist</i> <b>23</b> (1985), 669                                          |
| Blossite             | $\text{Cu}_2\text{V}^{5+}_2\text{O}_7$                                                                                                                                       | A  | 1986-002  | El Salvador    | <i>American Mineralogist</i> <b>72</b> (1987), 397                                                                                     | <i>Acta Crystallographica</i> <b>B31</b> (1975), 603                                        |
| Bluebellite          | $\text{Cu}_6(\text{IO}_3)(\text{OH})_{10}\text{Cl}$                                                                                                                          | A  | 2013-121  | USA            | <i>Mineralogical Magazine</i> <b>78</b> (2014), 1325                                                                                   |                                                                                             |
| Bluelizardite        | $\text{Na}_7(\text{UO}_2)(\text{SO}_4)_4\text{Cl}(\text{H}_2\text{O})_2$                                                                                                     | A  | 2013-062  | USA            | <i>Journal of Geosciences</i> <b>59</b> (2014), 145                                                                                    |                                                                                             |
| Blueridgeite         | $[\text{Pb}_8\text{Zn}_3\text{Cu}^{2+}(\text{OH})_{16}](\text{SO}_4)_2(\text{S}_2\text{O}_3)_2 \cdot 2\text{H}_2\text{O}$                                                    | A  | 2024-071  | USA            | <i>Canadian Journal of Mineralogy and Petrology</i> <b>63</b> (2025), 397                                                              |                                                                                             |
| Bluestreakite        | $\text{K}_4\text{Mg}_2(\text{V}^{4+}_2\text{V}^{5+}_8\text{O}_{28})(\text{H}_2\text{O})_{14}$                                                                                | A  | 2014-047  | USA            | <i>Canadian Mineralogist</i> <b>52</b> (2014), 1007                                                                                    |                                                                                             |
| Bobcookite           | $\text{NaAl}(\text{UO}_2)_2(\text{SO}_4)_4(\text{H}_2\text{O})_{10} \cdot 8\text{H}_2\text{O}$                                                                               | A  | 2014-030  | USA            | <i>Mineralogical Magazine</i> <b>79</b> (2015), 695                                                                                    |                                                                                             |
| Bobfergusonite       | $\square\text{Na}_2\text{Mn}_5\text{Fe}^{3+}\text{Al}(\text{PO}_4)_6$                                                                                                        | A  | 1984-072a | Canada         | <i>Canadian Mineralogist</i> <b>24</b> (1986), 599                                                                                     | <i>Canadian Mineralogist</i> <b>42</b> (2004), 705                                          |
| Bobfinchite          | $\text{Na}[(\text{UO}_2)_6\text{O}_3(\text{OH})_{11}](\text{H}_2\text{O})_3 \cdot 7\text{H}_2\text{O}$                                                                       | A  | 2020-082  | USA            | <i>American Mineralogist</i> <b>109</b> (2024), 1266                                                                                   |                                                                                             |
| Bobierite            | $\text{Mg}_3(\text{PO}_4)_2(\text{H}_2\text{O})_8$                                                                                                                           | G  | 1868      | Chile          | A System of Mineralogy, 5th ed. Wiley, New York (1868), 795                                                                            | <i>American Mineralogist</i> <b>71</b> (1986), 1229                                         |
| Bobjonesite          | $\text{V}^{4+}\text{O}(\text{SO}_4)(\text{H}_2\text{O})_3$                                                                                                                   | A  | 2000-045  | USA            | <i>Canadian Mineralogist</i> <b>41</b> (2003), 83                                                                                      |                                                                                             |
| Bobkingite           | $\text{Cu}_5\text{Cl}_2(\text{OH})_8(\text{H}_2\text{O})_2$                                                                                                                  | A  | 2000-029  | United Kingdom | <i>Mineralogical Magazine</i> <b>66</b> (2002), 301                                                                                    |                                                                                             |
| Bobmeyerite          | $\text{Pb}_4(\text{Al}_3\text{Cu})(\text{Si}_4\text{O}_{12})(\text{S}_{0.5}\text{Si}_{0.5}\text{O}_4)(\text{OH})_7\text{Cl}(\text{H}_2\text{O})_3$                           | A  | 2012-019  | USA            | <i>Mineralogical Magazine</i> <b>77</b> (2013), 81                                                                                     |                                                                                             |
| Bobshannonite        | $\text{Na}_2\text{KBa}(\text{Mn}_7\text{Na})\text{Nb}_4(\text{Si}_2\text{O}_7)_4\text{O}_4(\text{OH})_4\text{O}_2$                                                           | Rd | 2014-052  | Canada         | <i>Mineralogical Magazine</i> <b>79</b> (2015), 1791                                                                                   | <i>Canadian Mineralogist</i> <b>58</b> (2020), 19                                           |
| Bobtraillite         | $(\text{Na}, \square)_{12}(\square, \text{Na})_{12}\text{Sr}_{12}\text{Zr}_{14}(\text{Si}_3\text{O}_9)_{10}[\text{Si}_2\text{BO}_7(\text{OH})_2]_6(\text{H}_2\text{O})_{12}$ | A  | 2001-041  | Canada         | <i>Canadian Mineralogist</i> <b>43</b> (2005), 747                                                                                     | <i>European Journal of Mineralogy</i> <b>35</b> (2023), 65                                  |
| Bodieite             | $\text{Bi}^{3+}_2(\text{Te}^{4+}\text{O}_3)_2(\text{SO}_4)$                                                                                                                  | A  | 2017-117  | USA            | <i>Canadian Mineralogist</i> <b>56</b> (2018), 763                                                                                     |                                                                                             |
| Boevskite            | $\text{Pb}_4(\text{TeO}_3)_2(\text{SO}_4)(\text{S}_2\text{O}_3)$                                                                                                             | A  | 2024-041  | Russia         | CNMNC Newsletter 81 - <i>Mineralogical Magazine</i> <b>88</b> (2024), 632; <i>European Journal of Mineralogy</i> <b>36</b> (2024), 917 | <a href="https://doi.org/10.1180/mgm.2025.10143">https://doi.org/10.1180/mgm.2025.10143</a> |

|                |                                                                                                                                                      |    |           |                        |                                                                                                                                        |                                                                                    |
|----------------|------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----------|------------------------|----------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| Bogdanovite    | (Au,Te,Pb) <sub>3</sub> (Cu,Fe)                                                                                                                      | A  | 1978-019  | Kazakhstan / Russia    | <i>Vestnik Moskovskogo Universiteta, Geologiya Seriya 1</i> (1979), 44                                                                 | <i>Canadian Mineralogist</i> <b>28</b> (1990), 751                                 |
| Bøggildite     | Na <sub>2</sub> Sr <sub>2</sub> Al <sub>2</sub> (PO <sub>4</sub> )F <sub>9</sub>                                                                     | G  | 1951      | Denmark (Greenland)    | <i>Meddelelser fra Dansk Geologisk Forening</i> <b>12</b> (1951), 109                                                                  | <i>Canadian Mineralogist</i> <b>20</b> (1982), 263                                 |
| Boggsite       | Na <sub>3</sub> Ca <sub>8</sub> (Si <sub>77</sub> Al <sub>19</sub> )O <sub>192</sub> ·70H <sub>2</sub> O                                             | A  | 1989-009  | USA                    | <i>American Mineralogist</i> <b>75</b> (1990), 1200                                                                                    | <i>American Mineralogist</i> <b>75</b> (1990), 501                                 |
| Bøgvadite      | Na <sub>2</sub> Ba <sub>2</sub> SrAl <sub>4</sub> F <sub>20</sub>                                                                                    | A  | 1987-029  | Denmark (Greenland)    | <i>Bulletin of the Geological Society of Denmark</i> <b>37</b> (1988), 21                                                              | <i>Mineralogy and Petrology</i> <b>108</b> (2014), 479                             |
| Bohdanowiczite | AgBiSe <sub>2</sub>                                                                                                                                  | Rd | 1978 s.p. | Poland                 | <i>Przeglad Geologiczny</i> <b>15</b> (1967), 240                                                                                      | <i>Mineralogical Magazine</i> <b>87</b> (2023), 292                                |
| Böhmite        | AlO(OH)                                                                                                                                              | G  | 1927      | France                 | <i>Comptes Rendus de l'Académie des Sciences de Paris</i> <b>184</b> (1927), 1661                                                      | <i>Clays and Clay Minerals</i> <b>29</b> (1981), 435                               |
| Bohseite       | Ca <sub>4</sub> Be <sub>3+x</sub> Al <sub>1-x</sub> Si <sub>9</sub> O <sub>25-x</sub> (OH) <sub>3+x</sub> (x = 0 to 1)                               | Rd | 2015 s.p. | Denmark (Greenland)    | <i>Mineralogical Magazine</i> <b>81</b> (2017), 35                                                                                     |                                                                                    |
| Bohuslavite    | Fe <sup>3+</sup> <sub>4</sub> (PO <sub>4</sub> ) <sub>3</sub> (SO <sub>4</sub> )(OH)(H <sub>2</sub> O) <sub>10</sub> ·nH <sub>2</sub> O (5 ≤ n ≤ 14) | A  | 2018-074a | Italy / Czech Republic | <i>European Journal of Mineralogy</i> <b>31</b> (2019), 1033                                                                           | <i>Minerals</i> <b>13</b> (2023), 286                                              |
| Bojarite       | Cu <sub>3</sub> (N <sub>3</sub> C <sub>2</sub> H <sub>2</sub> ) <sub>3</sub> (OH)Cl <sub>2</sub> ·6H <sub>2</sub> O                                  | A  | 2020-037  | Chile                  | <i>Mineralogical Magazine</i> <b>84</b> (2020), 921                                                                                    |                                                                                    |
| Bokite         | (Al,Fe) <sub>1.3</sub> (V <sup>5+</sup> ,V <sup>4+</sup> ,Fe <sup>3+</sup> ) <sub>8</sub> O <sub>20</sub> ·7.5H <sub>2</sub> O                       | A  | 1967 s.p. | Kazakhstan             | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>92</b> (1963), 51                                                        | <i>American Mineralogist</i> <b>75</b> (1990), 508                                 |
| Boleite        | KAg <sub>9</sub> Pb <sub>26</sub> Cu <sub>24</sub> Cl <sub>62</sub> (OH) <sub>48</sub>                                                               | Rn | 1891      | Mexico                 | <i>Bulletin de la Société Française de Minéralogie</i> <b>14</b> (1891), 283                                                           | <i>American Mineralogist</i> <b>110</b> (2025), 1677                               |
| Bolivarite     | Al <sub>2</sub> (PO <sub>4</sub> )(OH) <sub>3</sub> ·4H <sub>2</sub> O                                                                               | Q  | 1921      | Spain                  | <i>Boletín de la Real Sociedad Española de Historia Natural</i> <b>21</b> (1921), 326                                                  | <i>Canadian Mineralogist</i> <b>33</b> (1995), 59                                  |
| Bolotinaite    | (Na <sub>7</sub> □)(Al <sub>6</sub> Si <sub>6</sub> O <sub>24</sub> )F·4H <sub>2</sub> O                                                             | A  | 2021-088  | Germany                | <i>Mineralogical Magazine</i> <b>86</b> (2022), 920                                                                                    |                                                                                    |
| Boltwoodite    | (K <sub>0.63</sub> Na <sub>0.37</sub> )(UO <sub>2</sub> )(SiO <sub>3</sub> OH)(H <sub>2</sub> O) <sub>1.5</sub>                                      | G  | 1956      | USA                    | <i>Science</i> <b>124</b> (1956), 931                                                                                                  | <i>American Mineralogist</i> <b>110</b> (2025), 1318                               |
| Bonaccordite   | Ni <sub>2</sub> Fe <sup>3+</sup> O <sub>2</sub> (BO <sub>3</sub> )                                                                                   | A  | 1974-019  | South Africa           | <i>Transactions of the Geological Society of South Africa</i> <b>77</b> (1974), 375                                                    |                                                                                    |
| Bonaccorsiite  | KK <sub>2</sub> Na <sub>3</sub> (Al <sub>6</sub> Si <sub>36</sub> )O <sub>84</sub>                                                                   | A  | 2025-028  | Germany                | CNMNC Newsletter 87 - <i>Mineralogical Magazine</i> <b>89</b> (2025), 706; <i>European Journal of Mineralogy</i> <b>37</b> (2025), 695 |                                                                                    |
| Bonacinaite    | Sc(AsO <sub>4</sub> )(H <sub>2</sub> O) <sub>2</sub>                                                                                                 | A  | 2018-056  | Italy                  | <i>European Journal of Mineralogy</i> <b>36</b> (2024), 863                                                                            | <i>Mineralogical Magazine</i> <b>84</b> (2020), 568                                |
| Bonattite      | Cu(SO <sub>4</sub> )(H <sub>2</sub> O) <sub>3</sub>                                                                                                  | G  | 1957      | Italy                  | <i>Rendiconti dell'Accademia Nazionale dei Lincei, Serie VIII</i> <b>22</b> (1957), 318                                                | <i>Acta Crystallographica</i> <b>B24</b> (1968), 508                               |
| Bonazziite     | As <sub>4</sub> S <sub>4</sub>                                                                                                                       | A  | 2013-141  | Kyrgyzstan             | <i>Mineralogical Magazine</i> <b>79</b> (2015), 121                                                                                    |                                                                                    |
| Bonshtedtite   | Na <sub>3</sub> Fe <sup>2+</sup> (PO <sub>4</sub> )(CO <sub>3</sub> )                                                                                | A  | 1981-026a | Russia                 | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>111</b> (1982), 486                                                      | <i>Zapiski Rossiyskogo Mineralogicheskogo Obshchestva</i> <b>142(1)</b> (2013), 46 |
| Boojumite      | Pb <sub>8</sub> O <sub>4</sub> (OH) <sub>2</sub> (S <sub>2</sub> O <sub>3</sub> ) <sub>3</sub>                                                       | A  | 2022-028  | USA                    | <i>Canadian Journal of Mineralogy and Petrology</i> <b>62</b> (2024), 391                                                              |                                                                                    |
| Boothite       | Cu(SO <sub>4</sub> )(H <sub>2</sub> O) <sub>6</sub> ·H <sub>2</sub> O                                                                                | G  | 1903      | USA                    | <i>University of California Department of Geology Bulletin</i> <b>3</b> (1903), 207                                                    | <i>Australian Journal of Mineralogy</i> <b>10</b> (2004), 3                        |
| Boracite       | Mg <sub>3</sub> B <sub>7</sub> O <sub>13</sub> Cl                                                                                                    | G  | 1789      | Germany                | <i>Bergmannisches Journal</i> <b>1</b> (1789), 393                                                                                     | <i>Zeitschrift für Kristallographie</i> <b>138</b> (1973), 64                      |
| Borasilite     | Al <sub>16</sub> B <sub>6</sub> O <sub>30</sub> (Si <sub>2</sub> O <sub>7</sub> )                                                                    | A  | 1996-029  | Antarctica             | <i>American Mineralogist</i> <b>83</b> (1998), 638                                                                                     | <i>American Mineralogist</i> <b>84</b> (1999), 1152                                |
| Borax          | Na <sub>2</sub> B <sub>4</sub> O <sub>5</sub> (OH) <sub>4</sub> (H <sub>2</sub> O) <sub>8</sub>                                                      | G  | ?         | unknown                | original paper?                                                                                                                        | <i>American Mineralogist</i> <b>109</b> (2024), 533                                |
| Borcarite      | Ca <sub>4</sub> MgB <sub>4</sub> O <sub>6</sub> (CO <sub>3</sub> ) <sub>2</sub> (OH) <sub>6</sub>                                                    | A  | 1968 s.p. | Russia                 | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>94</b> (1965), 180                                                       | <i>Mineralogical Magazine</i> <b>59</b> (1995), 297                                |

|                 |                                                                                                                                                                          |    |           |                |                                                                                                                                        |                                                                |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----------|----------------|----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|
| Borisenkoite    | $\text{Cu}_3(\text{VO}_4)_2$                                                                                                                                             | A  | 2015-113  | Russia         | <i>Physics and Chemistry of Minerals</i> <b>47</b> (2020), 17                                                                          |                                                                |
| Bornemanite     | $\text{Na}_6(\text{Na}\square)\text{Ba}_2\text{Ti}_2\text{Nb}_2(\text{Na}_5\square)\text{Ti}_2(\text{Si}_2\text{O}_7)_4(\text{PO}_4)_2\text{O}_4(\text{OH})_2\text{F}_2$ | Rd | 1973-053  | Russia         | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>104</b> (1975), 322                                                      | <i>Mineralogical Magazine</i> <b>71</b> (2007), 593            |
| Bornhardtite    | $\text{Co}^{2+}\text{Co}^{3+}_2\text{Se}_4$                                                                                                                              | G  | 1955      | Germany        | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1955), 133                                                                          |                                                                |
| Bornite         | $\text{Cu}_5\text{FeS}_4$                                                                                                                                                | A  | 1962 s.p. | unknown        | Handbuch der Bestimmenden Mineralogie. Braumüller and Seidel, Wien (1845), 559                                                         | <i>Crystals</i> <b>11</b> (2021), 1495                         |
| Borocookeite    | $\text{LiAl}_4(\text{Si}_3\text{B})\text{O}_{10}(\text{OH})_8$                                                                                                           | A  | 2000-013  | Russia         | <i>American Mineralogist</i> <b>88</b> (2003), 830                                                                                     |                                                                |
| Borodaevite     | $\text{Ag}_{4.83}\text{Fe}_{0.21}\text{Pb}_{0.45}(\text{Bi},\text{Sb})_{8.84}\text{S}_{16}$                                                                              | A  | 1991-037  | Russia         | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>121(4)</b> (1992), 113                                                 | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1997), 337  |
| Boromullite     | $\text{Al}_9\text{BSi}_2\text{O}_{19}$                                                                                                                                   | A  | 2007-021  | Australia      | <i>European Journal of Mineralogy</i> <b>20</b> (2008), 935                                                                            |                                                                |
| Boromuscovite   | $\text{KAl}_2(\text{Si}_3\text{B})\text{O}_{10}(\text{OH})_2$                                                                                                            | A  | 1989-027  | USA            | <i>American Mineralogist</i> <b>76</b> (1991), 1998                                                                                    | <i>Canadian Mineralogist</i> <b>33</b> (1995), 859             |
| Borovskite      | $\text{Pd}_3\text{SbTe}_4$                                                                                                                                               | A  | 1972-032  | Russia         | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>102</b> (1973), 427                                                      |                                                                |
| Bortnikovite    | $\text{Pd}_4\text{Cu}_3\text{Zn}$                                                                                                                                        | A  | 2006-027  | Russia         | <i>Geology of Ore Deposits</i> <b>49</b> (2007), 318                                                                                   |                                                                |
| Bortolanite     | $\text{Ca}_2(\text{Ca}_{1.5}\text{Zr}_{0.5})\text{Na}(\text{NaCa})\text{Ti}(\text{Si}_2\text{O}_7)_2(\text{OF})\text{F}_2$                                               | A  | 2021-040a | Brazil         | <i>Canadian Mineralogist</i> <b>60</b> (2022), 699                                                                                     | <i>Mineralogical Magazine</i> <b>88</b> (2024), 380            |
| Borzęckiite     | $\text{Pb}(\text{UO}_2)_3(\text{SeO}_3)_2\text{O}_2 \cdot 3\text{H}_2\text{O}$                                                                                           | A  | 2018-146a | Poland         | CNMNC Newsletter 70 - <i>Mineralogical Magazine</i> <b>87</b> (2023), 160; <i>European Journal of Mineralogy</i> <b>34</b> (2022), 591 |                                                                |
| Boscardinite    | $\text{TiPb}_4(\text{Sb}_7\text{As}_2)\text{S}_{18}$                                                                                                                     | A  | 2010-079  | Italy          | <i>Canadian Mineralogist</i> <b>50</b> (2012), 235                                                                                     | <i>Mineralogical Magazine</i> <b>81</b> (2017), 47             |
| Bosiite         | $\text{NaFe}^{3+}_3(\text{Al}_4\text{Mg}_2)(\text{Si}_6\text{O}_{18})(\text{BO}_3)_3(\text{OH})_3\text{O}$                                                               | A  | 2014-094  | Russia         | <i>European Journal of Mineralogy</i> <b>28</b> (2016), 581                                                                            |                                                                |
| Bosoite         | $\text{SiO}_2 \cdot n\text{C}_x\text{H}_{2x+2}$                                                                                                                          | A  | 2014-023  | Japan          | <i>Mineralogical Magazine</i> <b>84</b> (2020), 941                                                                                    |                                                                |
| Bostwickite     | $\text{CaMn}^{3+}_6\text{Si}_3\text{O}_{16} \cdot 7\text{H}_2\text{O}$                                                                                                   | A  | 1982-073  | USA            | <i>Mineralogical Magazine</i> <b>47</b> (1983), 387                                                                                    |                                                                |
| Botallackite    | $\text{Cu}_2\text{Cl}(\text{OH})_3$                                                                                                                                      | G  | 1865      | United Kingdom | <i>Journal of the Chemical Society</i> <b>18</b> (1865), 212                                                                           | <i>Mineralogical Magazine</i> <b>49</b> (1985), 87             |
| Botryogen       | $\text{MgFe}^{3+}(\text{SO}_4)_2(\text{OH})(\text{H}_2\text{O})_6 \cdot \text{H}_2\text{O}$                                                                              | G  | 1828      | Sweden         | <i>Annalen der Physik und Chemie</i> <b>12</b> (1828), 491                                                                             | <i>Acta Crystallographica</i> <b>B24</b> (1968), 760           |
| Bottinoite      | $\text{NiSb}^{5+}_2(\text{OH})_{12}(\text{H}_2\text{O})_6$                                                                                                               | A  | 1991-029  | Italy          | <i>American Mineralogist</i> <b>77</b> (1992), 1301                                                                                    | <i>American Mineralogist</i> <b>81</b> (1996), 1494            |
| Botuobinskite   | $\text{SrFe}^{2+}(\text{Ti}^{4+}_{12}\text{Cr}^{3+}_6)\text{Mg}_2[\text{O}_{36}(\text{OH})_2]$                                                                           | A  | 2018-143a | Russia         | <i>Mineralogical Magazine</i> <b>87</b> (2023), 433                                                                                    |                                                                |
| Bouazzerite     | $\text{Bi}_6\text{Mg}_{11}\text{Fe}_{14}(\text{AsO}_4)_{18}\text{O}_{12}(\text{OH})_4(\text{H}_2\text{O})_{86}$                                                          | A  | 2005-042  | Morocco        | <i>American Mineralogist</i> <b>92</b> (2007), 1630                                                                                    |                                                                |
| Boulangerite    | $\text{Pb}_5\text{Sb}_4\text{S}_{11}$                                                                                                                                    | G  | 1837      | France         | <i>Annalen der Physik und Chemie</i> <b>41</b> (1837), 216                                                                             | <i>Canadian Mineralogist</i> <b>50</b> (2012), 181             |
| Bounahasite     | $\text{Cu}^+\text{Cu}^{2+}_2(\text{OH})_3\text{Cl}_2$                                                                                                                    | A  | 2021-114  | Morocco        | <i>Mineralogical Magazine</i> <b>87</b> (2023), 218                                                                                    |                                                                |
| Bournonite      | $\text{CuPbSbS}_3$                                                                                                                                                       | G  | 1805      | United Kingdom | System of Mineralogy, vol. II. Bell & Bradfute, Edinburgh (1805), 579                                                                  | <i>Zeitschrift für Kristallographie</i> <b>131</b> (1970), 397 |
| Bouškaite       | $(\text{MoO}_2)_2\text{O}(\text{SO}_3\text{OH})_2(\text{H}_2\text{O})_2 \cdot 2\text{H}_2\text{O}$                                                                       | A  | 2018-055a | Czech Republic | <i>Journal of Geosciences</i> <b>64</b> (2019), 197                                                                                    |                                                                |
| Boussingaultite | $(\text{NH}_4)_2\text{Mg}(\text{SO}_4)_2(\text{H}_2\text{O})_6$                                                                                                          | G  | 1863      | Italy          | <i>Continuazione degli Atti della Reale Accademia dei Georgofili di Firenze</i> <b>10</b> (1863), 201                                  | <i>American Mineralogist</i> <b>111</b> (2026), 335            |
| Bowieite        | $\text{Rh}_2\text{S}_3$                                                                                                                                                  | A  | 1980-022  | USA            | <i>Canadian Mineralogist</i> <b>22</b> (1984), 543                                                                                     | <i>Acta Crystallographica</i> <b>C78</b> (2022), 606           |
| Bowlesite       | $\text{PtSnS}$                                                                                                                                                           | A  | 2019-079  | South Africa   | <i>Mineralogical Magazine</i> <b>84</b> (2020), 468                                                                                    |                                                                |

|                  |                                                                                                                                       |    |           |                 |                                                                                                     |                                                                                         |
|------------------|---------------------------------------------------------------------------------------------------------------------------------------|----|-----------|-----------------|-----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| Boyleite         | $\text{Zn}(\text{SO}_4)(\text{H}_2\text{O})_4$                                                                                        | A  | 1977-026  | Germany         | <i>Chemie der Erde</i> <b>37</b> (1978), 73                                                         | <i>Acta Crystallographica</i> <b>E57</b> (2001), i109                                   |
| Braccoite        | $\text{NaMn}^{2+}_5[\text{Si}_5\text{O}_{14}(\text{OH})](\text{AsO}_3)(\text{OH})$                                                    | A  | 2013-093  | Italy           | <i>Mineralogical Magazine</i> <b>79</b> (2015), 171                                                 |                                                                                         |
| Bracewellite     | $\text{CrO}(\text{OH})$                                                                                                               | A  | 1967-035  | Guyana          | <i>U.S. Geological Survey Professional Paper</i> <b>887</b> (1976), 1                               |                                                                                         |
| Brackebuschite   | $\text{Pb}_2\text{Mn}^{3+}(\text{VO}_4)_2(\text{OH})$                                                                                 | G  | 1880      | Argentina       | <i>Zeitschrift der Deutschen Geologischen Gesellschaft</i> <b>32</b> (1880), 708                    | <i>Canadian Mineralogist</i> <b>35</b> (1997), 1027                                     |
| Bradaczekite     | $\text{NaCuCuCu}_2(\text{AsO}_4)_3$                                                                                                   | A  | 2000-002  | Russia          | <i>Canadian Mineralogist</i> <b>39</b> (2001), 1115                                                 | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>130(5)</b> (2001), 1    |
| Bradleyite       | $\text{Na}_3\text{Mg}(\text{PO}_4)(\text{CO}_3)$                                                                                      | G  | 1941      | USA             | <i>American Mineralogist</i> <b>26</b> (1941), 646                                                  | <i>American Mineralogist</i> <b>110</b> (2025), 2017                                    |
| Braggite         | $\text{PdPt}_3\text{S}_4$                                                                                                             | Rd | 2022 s.p. | South Africa    | <i>Mineralogical Magazine</i> <b>23</b> (1932), 188                                                 | <i>Canadian Journal of Mineralogy and Petrology</i> <b>61</b> (2023), 167               |
| Braithwaiteite   | $\text{NaCu}^{2+}_5(\text{Sb}^{5+}\text{Ti}^{4+})\text{O}_2(\text{AsO}_4)_4[\text{AsO}_3(\text{OH})]_2(\text{H}_2\text{O})_8$         | A  | 2006-050  | Bolivia         | <i>Canadian Mineralogist</i> <b>47</b> (2009), 947                                                  | <i>Journal of Coordination Chemistry</i> <b>61</b> (2008), 15                           |
| Braitschite-(Ce) | $\text{Ca}_{6.15}\text{Na}_{0.85}\text{REE}_{2.08}[\text{B}_6\text{O}_7(\text{OH})_3(\text{O},\text{OH})_3]_4\cdot\text{H}_2\text{O}$ | Rn | 1987 s.p. | USA             | <i>American Mineralogist</i> <b>53</b> (1968), 1081                                                 | <i>American Mineralogist</i> <b>96</b> (2011), 197                                      |
| Branchite        | $\text{C}_{20}\text{H}_{34}$                                                                                                          | Rn | 2021 s.p. | Italy           | <i>Nuovo Giornale de' Letterati</i> <b>108</b> (1839), 1                                            | <i>Mineralogical Magazine</i> <b>86</b> (2022), 405                                     |
| Brandãoite       | $\text{BeAl}_2(\text{PO}_4)_2(\text{OH})_2(\text{H}_2\text{O})_4\cdot\text{H}_2\text{O}$                                              | A  | 2016-071a | Brazil          | <i>Mineralogical Magazine</i> <b>83</b> (2019), 261                                                 |                                                                                         |
| Brandholzite     | $\text{MgSb}_2(\text{OH})_{12}(\text{H}_2\text{O})_6$                                                                                 | A  | 1998-017  | Germany         | <i>American Mineralogist</i> <b>85</b> (2000), 593                                                  | <i>Journal of Geosciences</i> <b>55</b> (2010), 149                                     |
| Brandtite        | $\text{Ca}_2\text{Mn}^{2+}(\text{AsO}_4)_2(\text{H}_2\text{O})_2$                                                                     | G  | 1888      | Sweden          | <i>Öfversigt af Kongliga Vetenskaps-Akademiens Förhandlingar</i> <b>45</b> (1888), 417              | <i>Canadian Mineralogist</i> <b>44</b> (2006), 1181                                     |
| Brannerite       | $\text{UTi}_2\text{O}_6$                                                                                                              | A  | 1967 s.p. | USA             | <i>Journal of the Franklin Institute</i> <b>189</b> (1920), 225                                     | <i>Mineralogical Magazine</i> <b>84</b> (2020), 313                                     |
| Brannockite      | $\text{KSn}_2(\text{Li}_3\text{Si}_{12})\text{O}_{30}$                                                                                | A  | 1972-029  | USA             | <i>Mineralogical Record</i> <b>4</b> (1973), 73                                                     | <i>European Journal of Mineralogy</i> <b>28</b> (2016), 153                             |
| Brassite         | $\text{Mg}(\text{AsO}_3\text{OH})(\text{H}_2\text{O})_4$                                                                              | A  | 1973-047  | Czech Republic  | <i>Bulletin de la Société Française de Minéralogie et de Cristallographie</i> <b>96</b> (1973), 365 | <i>Acta Crystallographica</i> <b>B32</b> (1976), 1460                                   |
| Brattforsite     | $\text{Mn}_{19}(\text{AsO}_3)_{12}\text{Cl}_2$                                                                                        | A  | 2019-127  | Sweden          | <i>Mineralogy and Petrology</i> <b>115</b> (2021), 595                                              |                                                                                         |
| Braunerite       | $\text{K}_2\text{Ca}(\text{UO}_2)(\text{CO}_3)_3\cdot 6\text{H}_2\text{O}$                                                            | A  | 2015-123  | Czech Republic  | CNMNC Newsletter 31 - <i>Mineralogical Magazine</i> <b>80</b> (2016), 691                           |                                                                                         |
| Braunite         | $\text{Mn}^{2+}\text{Mn}^{3+}_6\text{O}_8(\text{SiO}_4)$                                                                              | G  | 1828      | Germany / Italy | <i>Annalen der Physik und Chemie</i> <b>14</b> (1828), 197                                          | <i>American Mineralogist</i> <b>61</b> (1976), 1226                                     |
| Brazilianite     | $\text{NaAl}_3(\text{PO}_4)_2(\text{OH})_4$                                                                                           | G  | 1945      | Brazil          | <i>American Mineralogist</i> <b>30</b> (1945), 572                                                  | <i>American Mineralogist</i> <b>98</b> (2013), 1624                                     |
| Bredigite        | $\text{Ca}_7\text{Mg}(\text{SiO}_4)_4$                                                                                                | G  | 1948      | United Kingdom  | <i>Mineralogical Magazine</i> <b>28</b> (1948), 255                                                 | <i>Mineralogy and Petrology</i> <b>116</b> (2022), 151                                  |
| Breithauptite    | $\text{NiSb}$                                                                                                                         | G  | 1845      | Germany         | Handbuch der Bestimmenden Mineralogie. Braumüller and Seidel, Wien (1845), 559                      | <i>Acta Chemica Scandinavica</i> <b>23</b> (1969), 2621                                 |
| Brendelite       | $(\text{Bi},\text{Pb})_2(\text{Fe}^{3+},\text{Fe}^{2+})\text{O}_2(\text{OH})(\text{PO}_4)$                                            | A  | 1997-001  | Germany         | <i>Mineralogy and Petrology</i> <b>63</b> (1998), 263                                               |                                                                                         |
| Brenkite         | $\text{Ca}_2(\text{CO}_3)\text{F}_2$                                                                                                  | A  | 1977-036  | Germany         | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1978), 325                                       | <i>Tschermaks Mineralogische und Petrographische Mitteilungen</i> <b>27</b> (1980), 261 |
| Brewsterite-Ba   | $\text{Ba}(\text{Al}_2\text{Si}_6)\text{O}_{16}\cdot 5\text{H}_2\text{O}$                                                             | A  | 1997 s.p. | USA / Italy     | <i>Canadian Mineralogist</i> <b>31</b> (1993), 687                                                  | <i>European Journal of Mineralogy</i> <b>5</b> (1993), 353                              |

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| Brewsterite-Sr   | $\text{Sr}(\text{Al}_2\text{Si}_6)\text{O}_{16} \cdot 5\text{H}_2\text{O}$                                                                           | Rn | 1997 s.p. | United Kingdom                              | <i>Edinburgh Philosophy Journal</i> <b>6</b> (1822), 112                                            | <i>American Mineralogist</i> <b>72</b> (1987), 645             |
| Breyite          | $\text{Ca}_3\text{Si}_3\text{O}_9$                                                                                                                   | A  | 2018-062  | Brazil                                      | <i>American Mineralogist</i> <b>106</b> (2021), 38                                                  | <i>European Journal of Mineralogy</i> <b>32</b> (2020), 171    |
| Brezinaite       | $\text{Cr}_3\text{S}_4$                                                                                                                              | A  | 1969-004  | USA                                         | <i>American Mineralogist</i> <b>54</b> (1969), 1509                                                 | <i>Acta Crystallographica</i> <b>10</b> (1957), 620            |
| Brianite         | $\text{Na}_2\text{CaMg}(\text{PO}_4)_2$                                                                                                              | A  | 1966-030  | USA                                         | <i>Geochimica et Cosmochimica Acta</i> <b>31</b> (1967), 1711                                       | <i>American Mineralogist</i> <b>60</b> (1975), 717             |
| Brianroulstonite | $\text{Ca}_3\text{B}_5\text{O}_6(\text{OH})_7\text{Cl}_2(\text{H}_2\text{O})_4 \cdot 4\text{H}_2\text{O}$                                            | A  | 1996-009  | Canada                                      | <i>Canadian Mineralogist</i> <b>35</b> (1997), 751                                                  |                                                                |
| Brianyoungite    | $\text{Zn}_3(\text{CO}_3)(\text{OH})_4$                                                                                                              | A  | 1991-053  | United Kingdom                              | <i>Mineralogical Magazine</i> <b>57</b> (1993), 665                                                 |                                                                |
| Briartite        | $\text{Cu}_2\text{FeGeS}_4$                                                                                                                          | A  | 1965-018  | Democratic Republic of the Congo            | <i>Bulletin de la Société Française de Minéralogie et de Cristallographie</i> <b>88</b> (1965), 432 | <i>Materials Research Bulletin</i> <b>14</b> (1979), 1195      |
| Bridgesite-(Ce)  | $\text{CaCe}_2\text{Cu}_6(\text{SO}_4)_4(\text{OH})_{12}(\text{H}_2\text{O})_5 \cdot 3\text{H}_2\text{O}$                                            | A  | 2019-034  | United Kingdom                              | <i>Mineralogical Magazine</i> <b>86</b> (2022), 570                                                 |                                                                |
| Bridgmanite      | $\text{MgSiO}_3$                                                                                                                                     | A  | 2014-017  | Australia (meteorite)                       | <i>Science</i> <b>346</b> (2014), 1100                                                              | <i>American Mineralogist</i> <b>109</b> (2024), 872            |
| Brindleyite      | $(\text{Ni},\text{Al})_3(\text{Si},\text{Al})_2\text{O}_5(\text{OH})_4$                                                                              | A  | 1975-009a | Greece                                      | <i>American Mineralogist</i> <b>63</b> (1978), 484                                                  |                                                                |
| Brinrobertsite   | $(\text{Na},\text{K},\text{Ca})_{0.3}(\text{Al},\text{Fe},\text{Mg})_4(\text{Si},\text{Al})_8\text{O}_{20}(\text{OH})_4 \cdot 3.5\text{H}_2\text{O}$ | A  | 1997-040  | United Kingdom                              | <i>Mineralogical Magazine</i> <b>66</b> (2002), 605                                                 |                                                                |
| Britholite-(Ce)  | $(\text{Ce},\text{Ca})_5(\text{SiO}_4)_3(\text{OH})$                                                                                                 | Rn | 1987 s.p. | Denmark (Greenland)                         | <i>Meddelelser om Grønland</i> <b>24</b> (1901), 190                                                | <i>American Mineralogist</i> <b>86</b> (2001), 1066            |
| Britholite-(Y)   | $(\text{Y},\text{Ca})_5(\text{SiO}_4)_3(\text{OH})$                                                                                                  | Rn | 1966 s.p. | Japan                                       | <i>Scientific Papers of the Institute of Physical and Chemical Research</i> <b>34</b> (1938), 1018  | <i>Zeitschrift für Kristallographie</i> <b>206</b> (1993), 233 |
| Britvinite       | $\text{Pb}_{14}\text{Mg}_9(\text{Si}_{10}\text{O}_{28})(\text{BO}_3)_4(\text{CO}_3)_2(\text{OH})_{12}\text{F}_2$                                     | A  | 2006-031  | Sweden                                      | <i>Zapiski Rossiyskogo Mineralogicheskogo Obshchestva</i> <b>136(6)</b> (2007), 18                  | <i>Crystallography Reports</i> <b>53</b> (2008), 206           |
| Brizziite        | $\text{NaSbO}_3$                                                                                                                                     | A  | 1993-044  | Italy                                       | <i>European Journal of Mineralogy</i> <b>6</b> (1994), 667                                          | <i>Mineralogical Magazine</i> <b>82</b> (2018), 89             |
| Brochantite      | $\text{Cu}_4(\text{SO}_4)(\text{OH})_6$                                                                                                              | A  | 1980 s.p. | Russia                                      | <i>Annals of Philosophy</i> <b>8</b> (1824), 241                                                    | <i>European Journal of Mineralogy</i> <b>15</b> (2003), 267    |
| Brockite         | $(\text{Ca},\text{Th},\text{Ce})(\text{PO}_4) \cdot \text{H}_2\text{O}$                                                                              | A  | 1967 s.p. | USA                                         | <i>American Mineralogist</i> <b>47</b> (1962), 1346                                                 | <i>Journal of Chemical Physics</i> <b>16</b> (1948), 1003      |
| Brodtkorbite     | $\text{Cu}_2\text{HgSe}_2$                                                                                                                           | A  | 1999-023  | Argentina                                   | <i>Canadian Mineralogist</i> <b>40</b> (2002), 225                                                  | <i>European Journal of Mineralogy</i> <b>29</b> (2017), 663    |
| Bromargyrite     | $\text{AgBr}$                                                                                                                                        | A  | 1962 s.p. | Mexico                                      | <i>Annalen der Physik und Chemie</i> <b>153</b> (1849), 134                                         | <i>Physical Review B</i> <b>59</b> (1999), 750                 |
| Bromellite       | $\text{BeO}$                                                                                                                                         | G  | 1925      | Sweden                                      | <i>Zeitschrift für Kristallographie</i> <b>62</b> (1925), 113                                       | <i>Journal of Applied Physics</i> <b>59</b> (1986), 3728       |
| Brontesite       | $(\text{NH}_4)_3\text{PbCl}_5$                                                                                                                       | A  | 2008-039  | Italy                                       | <i>Canadian Mineralogist</i> <b>47</b> (2009), 1237                                                 |                                                                |
| Brookite         | $\text{TiO}_2$                                                                                                                                       | G  | 1825      | United Kingdom                              | <i>Annals of Philosophy</i> <b>9</b> (1825), 140                                                    | <i>Canadian Mineralogist</i> <b>17</b> (1979), 77              |
| Browneite        | $\text{MnS}$                                                                                                                                         | A  | 2012-008  | Poland (meteorite)                          | <i>American Mineralogist</i> <b>97</b> (2012), 2056                                                 |                                                                |
| Brownleeite      | $\text{MnSi}$                                                                                                                                        | A  | 2008-011  | IDP (interplanetary dust particle) over USA | <i>American Mineralogist</i> <b>95</b> (2010), 221                                                  | <i>Powder Diffraction</i> <b>6</b> (1991), 194                 |
| Brownmillerite   | $\text{Ca}_2\text{Fe}^{3+}\text{AlO}_5$                                                                                                              | A  | 1963-017  | Germany                                     | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1964), 22                                        | <i>American Mineralogist</i> <b>89</b> (2004), 405             |
| Brucite          | $\text{Mg}(\text{OH})_2$                                                                                                                             | G  | 1818      | USA                                         | <i>American Journal of Science</i> <b>1</b> (1818), 439                                             | <i>American Mineralogist</i> <b>91</b> (2006), 127             |

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| Brüggenite     | $\text{Ca}(\text{IO}_3)_2 \cdot \text{H}_2\text{O}$                                                                                                       | A  | 1970-040 | Chile               | <i>Journal of Research of the U.S. Geological Survey</i> <b>2</b> (1974), 471                                                          |                                                                                              |
| Brugnatellite  | $\text{Mg}_6\text{Fe}^{3+}(\text{CO}_3)(\text{OH})_{13} \cdot 4\text{H}_2\text{O}$                                                                        | Q  | 1909     | Italy               | <i>Rendiconti delle Sedute della Reale Accademia dei Lincei, Serie V</i> <b>18</b> (1909), 3                                           |                                                                                              |
| Brumadoite     | $\text{Cu}_3(\text{Te}^{6+}\text{O}_4)(\text{OH})_4 \cdot 5\text{H}_2\text{O}$                                                                            | A  | 2008-028 | Brazil              | <i>Mineralogical Magazine</i> <b>72</b> (2008), 1201                                                                                   |                                                                                              |
| Brunogeierite  | $\text{Ge}^{4+}\text{Fe}^{2+}_2\text{O}_4$                                                                                                                | Rd | 1972-004 | Namibia             | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1972), 263                                                                          | <i>Journal of Geosciences</i> <b>58</b> (2013), 71                                           |
| Brunovskyite   | $\text{NaZrSi}_2\text{O}_6(\text{OH})$                                                                                                                    | A  | 2024-089 | Russia              | CNMNC Newsletter 84 - <i>Mineralogical Magazine</i> <b>89</b> (2025), 298; <i>European Journal of Mineralogy</i> <b>37</b> (2025), 249 |                                                                                              |
| Brushite       | $\text{Ca}(\text{PO}_3\text{OH})(\text{H}_2\text{O})_2$                                                                                                   | G  | 1865     | Venezuela           | <i>American Journal of Science and Arts</i> <b>39</b> (1865), 43                                                                       | <i>Minerals</i> <b>11</b> (2021), 1028                                                       |
| Brusnitsynite  | $\text{Mn}_3\text{CuPbAs}_3\text{Sb}_2\text{S}_{12}$                                                                                                      | A  | 2025-010 | Russia              | <i>Zapiski Rossiyskogo Mineralogicheskogo Obshchestva</i> <b>154(6)</b> (2025), 40                                                     |                                                                                              |
| Bubnovaite     | $\text{K}_2\text{Na}_8\text{Ca}(\text{SO}_4)_6$                                                                                                           | A  | 2014-108 | Russia              | <i>European Journal of Mineralogy</i> <b>28</b> (2016), 677                                                                            | <i>Physics and Chemistry of Minerals</i> <b>50</b> (2023), 30                                |
| Buchwaldite    | $\text{NaCa}(\text{PO}_4)$                                                                                                                                | A  | 1975-041 | Denmark (Greenland) | <i>American Mineralogist</i> <b>62</b> (1977), 362                                                                                     | <i>Acta Crystallographica</i> <b>C39</b> (1983), 1483                                        |
| Buckhornite    | $(\text{Pb}_2\text{BiS}_3)(\text{AuTe}_2)$                                                                                                                | A  | 1988-022 | USA                 | <i>Canadian Mineralogist</i> <b>30</b> (1992), 1039                                                                                    | <i>Zeitschrift für Kristallographie</i> <b>215</b> (2000), 10                                |
| Buddingtonite  | $(\text{NH}_4)(\text{AlSi}_3\text{O}_8)$                                                                                                                  | A  | 1963-001 | USA                 | <i>American Mineralogist</i> <b>49</b> (1964), 831                                                                                     | <i>Physics and Chemistry of Minerals</i> <b>28</b> (2001), 188                               |
| Bukovite       | $\text{Ti}_2(\text{Cu}^+_3\text{Fe}^{3+})\text{Se}_4$                                                                                                     | A  | 1970-029 | Czech Republic      | <i>Bulletin de la Société Française de Minéralogie et de Cristallographie</i> <b>94</b> (1971), 529                                    | <i>Journal of Geosciences</i> <b>68</b> (2023), 179                                          |
| Bukovskýite    | $\text{Fe}^{3+}_2(\text{AsO}_4)(\text{SO}_4)(\text{OH}) \cdot 9\text{H}_2\text{O}$                                                                        | A  | 1967-022 | Czech Republic      | <i>Acta Universitatis Carolinae Geologica</i> <b>4</b> (1967), 297                                                                     | <i>Journal of Mineralogical and Petrological Sciences</i> <b>107</b> (2012), 133             |
| Bulachite      | $\text{Al}_6(\text{AsO}_4)_3(\text{OH})_9(\text{H}_2\text{O})_4 \cdot 2\text{H}_2\text{O}$                                                                | A  | 1982-081 | Germany             | <i>Aufschluss</i> <b>34</b> (1983), 445                                                                                                | <i>Mineralogical Magazine</i> <b>84</b> (2020), 608                                          |
| Bulgakite      | $\text{Li}_2(\text{Ca},\text{Na})\text{Fe}^{2+}_7\text{Ti}_2(\text{Si}_4\text{O}_{12})_2\text{O}_2(\text{OH})_4(\text{O},\text{F})(\text{H}_2\text{O})_2$ | A  | 2014-041 | Tajikistan          | <i>Canadian Mineralogist</i> <b>54</b> (2016), 33                                                                                      |                                                                                              |
| Bultfonteinite | $\text{Ca}_2\text{SiO}_3(\text{OH})\text{F}(\text{H}_2\text{O})$                                                                                          | G  | 1932     | South Africa        | <i>Mineralogical Magazine</i> <b>23</b> (1932), 145                                                                                    | <i>Atti della Società Toscana di Scienze Naturali, Memorie, Serie A</i> <b>115</b> (2010), 9 |
| Bunnoite       | $\text{Mn}^{2+}_6\text{AlSi}_6\text{O}_{18}(\text{OH})_3$                                                                                                 | A  | 2014-054 | Japan               | <i>Mineralogy and Petrology</i> <b>110</b> (2016), 917                                                                                 |                                                                                              |
| Bunsenite      | $\text{NiO}$                                                                                                                                              | G  | 1868     | Germany             | A System of Mineralogy, 5th ed. Wiley, New York (1868), 134                                                                            |                                                                                              |
| Burangaite     | $\text{NaFe}^{2+}\text{Al}_5(\text{PO}_4)_4(\text{OH})_6(\text{H}_2\text{O})_2$                                                                           | A  | 1976-013 | Rwanda              | <i>Bulletin of the Geological Society of Finland</i> <b>49</b> (1977), 33                                                              | <i>Canadian Mineralogist</i> <b>35</b> (1997), 1515                                          |
| Burbankite     | $(\text{Na},\text{Ca})_3(\text{Sr},\text{Ba},\text{Ce})_3(\text{CO}_3)_5$                                                                                 | G  | 1953     | USA                 | <i>American Mineralogist</i> <b>38</b> (1953), 1169                                                                                    | <i>European Journal of Mineralogy</i> <b>34</b> (2022), 351                                  |
| Burckhardtite  | $\text{Pb}_2(\text{Fe}^{3+}\text{Te}^{6+})(\text{AlSi}_3\text{O}_8)\text{O}_6$                                                                            | A  | 1976-052 | Mexico              | <i>American Mineralogist</i> <b>64</b> (1979), 355                                                                                     | <i>Mineralogical Magazine</i> <b>78</b> (2014), 1763                                         |
| Burgessite     | $\text{Co}_2(\text{H}_2\text{O})_4[\text{AsO}_3(\text{OH})]_2 \cdot \text{H}_2\text{O}$                                                                   | A  | 2007-055 | Canada              | <i>Canadian Mineralogist</i> <b>47</b> (2009), 159                                                                                     | <i>Canadian Mineralogist</i> <b>47</b> (2009), 165                                           |
| Burkeite       | $\text{Na}_4(\text{SO}_4)(\text{CO}_3)$                                                                                                                   | G  | 1921     | USA                 | <i>Journal of Industrial and Engineering Chemistry</i> <b>13</b> (1921), 249                                                           | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1988), 203                                |
| Burnettite     | $\text{CaVAiSiO}_6$                                                                                                                                       | A  | 2013-054 | Mexico (meteorite)  | <i>Meteoritics &amp; Planetary Science</i> <b>57</b> (2022), 1300                                                                      |                                                                                              |
| Burnsite       | $\text{KCdCu}_7\text{O}_2(\text{SeO}_3)_2\text{Cl}_9$                                                                                                     | A  | 2000-050 | Russia              | <i>Canadian Mineralogist</i> <b>40</b> (2002), 1171                                                                                    | <i>Canadian Mineralogist</i> <b>40</b> (2002), 1587                                          |

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| Burovaite-Ca      | $(\text{Na},\text{K})_4\text{Ca}_2(\text{Ti},\text{Nb})_8[\text{Si}_4\text{O}_{12}]_4(\text{OH},\text{O})_8 \cdot 12\text{H}_2\text{O}$                                                                      | A  | 2008-001 | Russia                           | <i>Zapiski Rossiyskogo Mineralogicheskogo Obshchestva</i> <b>138(2)</b> (2009), 40                                                     |                                                             |
| Burpalite         | $\text{Na}_4\text{Ca}_2\text{Zr}_2(\text{Si}_2\text{O}_7)_2\text{F}_4$                                                                                                                                       | A  | 1988-036 | Russia                           | <i>European Journal of Mineralogy</i> <b>2</b> (1990), 177                                                                             |                                                             |
| Burroite          | $\text{Ca}_2(\text{NH}_4)_2(\text{V}_{10}\text{O}_{28})(\text{H}_2\text{O})_{12} \cdot 3\text{H}_2\text{O}$                                                                                                  | A  | 2016-079 | USA                              | <i>Canadian Mineralogist</i> <b>55</b> (2017), 473                                                                                     |                                                             |
| Burtite           | $\text{CaSn}^{4+}(\text{OH})_6$                                                                                                                                                                              | A  | 1980-078 | Morocco                          | <i>Canadian Mineralogist</i> <b>19</b> (1981), 397                                                                                     |                                                             |
| Buryatite         | $\text{Ca}_3(\text{Si},\text{Fe}^{3+},\text{Al})(\text{SO}_4)\text{B}(\text{OH})_4(\text{OH},\text{O})_6 \cdot 12\text{H}_2\text{O}$                                                                         | A  | 2000-021 | Russia                           | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>130(2)</b> (2001), 72                                                  |                                                             |
| Buseckite         | $(\text{Fe},\text{Zn},\text{Mn})\text{S}$                                                                                                                                                                    | A  | 2011-070 | Poland (meteorite)               | <i>American Mineralogist</i> <b>97</b> (2012), 1226                                                                                    |                                                             |
| Buserite          | $\text{Na}_4\text{Mn}_{14}\text{O}_{27} \cdot 21\text{H}_2\text{O}$ (?)                                                                                                                                      | A  | 1970-024 | Japan                            | <i>Helvetica Chimica Acta</i> <b>54</b> (1971), 1112                                                                                   | <i>American Mineralogist</i> <b>68</b> (1983), 972          |
| Bushmakinite      | $\text{Pb}_2\text{Al}(\text{PO}_4)(\text{VO}_4)(\text{OH})$                                                                                                                                                  | A  | 2001-031 | Russia                           | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>131(2)</b> (2002), 62                                                  | <i>Doklady Earth Sciences</i> <b>382</b> (2002), 100        |
| Bussenite         | $(\text{Na}\square)_2\text{Ba}_4(\text{Fe}^{2+},\text{Na})_2\text{Ti}_2(\text{Si}_2\text{O}_7)_2(\text{CO}_3)_2\text{O}_2(\text{OH})_2(\text{H}_2\text{O})_2\text{F}_2$                                      | Rd | 2000-035 | Russia                           | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>130(3)</b> (2001), 50                                                  | <i>Crystallography Reports</i> <b>47</b> (2002), 43         |
| Bussyite-(Ce)     | $(\text{Ce},\text{REE})_3(\text{Na},\text{H}_2\text{O})_6\text{MnSi}_9\text{Be}_5(\text{O},\text{OH})_{30}\text{F}_4$                                                                                        | A  | 2007-039 | Canada                           | <i>Canadian Mineralogist</i> <b>47</b> (2009), 193                                                                                     |                                                             |
| Bussyite-(Y)      | $(\text{Y},\text{REE},\text{Ca})_3(\text{Na},\text{Ca})_6\text{MnSi}_9\text{Be}_5(\text{O},\text{F},\text{OH})_{34}$                                                                                         | A  | 2014-060 | Canada                           | <i>Canadian Mineralogist</i> <b>53</b> (2015), 235                                                                                     |                                                             |
| Bustamite         | $\text{Mn}_2\text{Ca}_2\text{MnCa}(\text{Si}_3\text{O}_9)_2$                                                                                                                                                 | G  | 1826     | USA                              | <i>Annales des Sciences Naturelles</i> <b>8</b> (1826), 411                                                                            | <i>American Mineralogist</i> <b>63</b> (1978), 274          |
| Butianite         | $\text{Ni}_6\text{SnS}_2$                                                                                                                                                                                    | A  | 2016-028 | Mexico (meteorite)               | <i>American Mineralogist</i> <b>103</b> (2018), 1918                                                                                   |                                                             |
| Butlerite         | $\text{Fe}^{3+}(\text{SO}_4)(\text{OH})(\text{H}_2\text{O})_2$                                                                                                                                               | G  | 1928     | USA                              | <i>American Mineralogist</i> <b>13</b> (1928), 203                                                                                     | <i>American Mineralogist</i> <b>56</b> (1971), 751          |
| Bütschliite       | $\text{K}_2\text{Ca}(\text{CO}_3)_2$                                                                                                                                                                         | G  | 1947     | USA                              | <i>American Mineralogist</i> <b>32</b> (1947), 607                                                                                     | <i>American Mineralogist</i> <b>110</b> (2025), 1280        |
| Buttgenbachite    | $\text{Cu}_{36}(\text{NO}_3)_2\text{Cl}_8(\text{OH})_{62} \cdot n\text{H}_2\text{O}$                                                                                                                         | G  | 1925     | Democratic Republic of the Congo | <i>Comptes Rendus Hebdomadaires des Séances de l'Académie des Sciences</i> <b>181</b> (1925), 421                                      | <i>Mineralogical Magazine</i> <b>67</b> (2003), 47          |
| Buynite           | $\text{TiPb}_{14}\text{As}_{17}\text{S}_{40}$                                                                                                                                                                | A  | 2023-049 | Switzerland                      | CNMNC Newsletter 75 - <i>Mineralogical Magazine</i> <b>87</b> (2023), 955; <i>European Journal of Mineralogy</i> <b>35</b> (2023), 891 |                                                             |
| Byelorussite-(Ce) | $\text{NaBa}_2\text{Ce}_2\text{Mn}^{2+}\text{Ti}_2\text{Si}_8\text{O}_{26}(\text{F},\text{OH})(\text{H}_2\text{O})$                                                                                          | A  | 1988-042 | Belarus                          | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>118(5)</b> (1989), 100                                                 | <i>Crystallography Reports</i> <b>49</b> (2004), 964        |
| Bykovaite         | $(\text{Ba},\text{Na},\text{K})_2(\text{Na},\text{Ti},\text{Mn})_4(\text{Ti},\text{Nb})_2\text{O}_2\text{Si}_4\text{O}_{14}(\text{H}_2\text{O},\text{F},\text{OH})_2 \cdot 3.5\text{H}_2\text{O}$            | A  | 2003-044 | Russia                           | <i>Zapiski Rossiyskogo Mineralogicheskogo Obshchestva</i> <b>134(5)</b> (2005), 40                                                     | <i>European Journal of Mineralogy</i> <b>21</b> (2009), 251 |
| Byrudite          | $\text{BeV}^{3+}_2\text{TiO}_6$                                                                                                                                                                              | A  | 2013-045 | Norway                           | <i>Mineralogical Magazine</i> <b>79</b> (2015), 261                                                                                    | <i>Canadian Mineralogist</i> <b>44</b> (2006), 1147         |
| Bystrite          | $\text{Na}_7\text{Ca}(\text{Si}_6\text{Al}_6)\text{O}_{24}(\text{S}_5)^{2-}\text{Cl}^-$                                                                                                                      | Rd | 1990-008 | Russia                           | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>120(3)</b> (1991), 97                                                  | <i>Mineralogical Magazine</i> <b>87</b> (2023), 455         |
| Byströmite        | $\text{MgSb}^{5+}_2\text{O}_6$                                                                                                                                                                               | G  | 1952     | Mexico                           | <i>American Mineralogist</i> <b>37</b> (1952), 53                                                                                      |                                                             |
| Bytízite          | $\text{Cu}_3\text{SbSe}_3$                                                                                                                                                                                   | A  | 2016-044 | Czech Republic                   | <i>Mineralogical Magazine</i> <b>82</b> (2018), 199                                                                                    |                                                             |
| Byzantievite      | $\text{Ba}_5(\text{Ca},\text{REE},\text{Y})_{22}(\text{Ti},\text{Nb})_{18}(\text{SiO}_4)_4[(\text{PO}_4),(\text{SiO}_4)]_4(\text{BO}_3)_9\text{O}_{22}[(\text{OH}),\text{F}]_{43}(\text{H}_2\text{O})_{1.5}$ | A  | 2009-001 | Tajikistan                       | <i>Mineralogical Magazine</i> <b>74</b> (2010), 285                                                                                    |                                                             |

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|-------------------------|----------------------------------------------------------------------------------------------------------------|----|-----------|------------------|----------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| Cabalarite              | $\text{CaMg}_2(\text{AsO}_4)_2(\text{H}_2\text{O})_2$                                                          | A  | 1997-012  | Switzerland      | <i>American Mineralogist</i> <b>85</b> (2000), 1307                                                                                    |                                                                                    |
| Cabrerite               | $\text{NiMg}_2(\text{AsO}_4)_2(\text{H}_2\text{O})_8$                                                          | A  | 2023-123  | USA              | <i>American Mineralogist</i> <b>110</b> (2025), 643                                                                                    |                                                                                    |
| Cabriite                | $\text{Pd}_2\text{CuSn}$                                                                                       | A  | 1981-057  | Russia           | <i>Canadian Mineralogist</i> <b>21</b> (1983), 481                                                                                     |                                                                                    |
| Cabvinite               | $\text{Th}_2\text{F}_7(\text{OH})(\text{H}_2\text{O})_3$                                                       | A  | 2016-011  | Italy            | <i>American Mineralogist</i> <b>102</b> (2017), 1384                                                                                   |                                                                                    |
| Cacoxenite              | $\text{Fe}^{3+}_{24}\text{AlO}_6(\text{PO}_4)_{17}(\text{OH})_{12}(\text{H}_2\text{O})_{75}$                   | G  | 1826      | Czech Republic   | <i>Archiv für die Gesamte Naturlehre</i> <b>8</b> (1826), 446                                                                          | <i>Zapiski Rossiyskogo Mineralogicheskogo Obshchestva</i> <b>151(6)</b> (2022), 71 |
| Cadmium                 | Cd                                                                                                             | A  | 1980-086a | Russia           | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>111</b> (1982), 304                                                      | <i>Journal of Chemical Physics</i> <b>3</b> (1935), 605                            |
| Cadmoindite             | $\text{CdIn}_2\text{S}_4$                                                                                      | A  | 2003-042  | Russia           | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>133(4)</b> (2004), 21                                                  |                                                                                    |
| Cadmoselite             | CdSe                                                                                                           | G  | 1957      | Russia           | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>86</b> (1957), 626                                                       | <i>Acta Crystallographica</i> <b>A33</b> (1977), 355                               |
| Cadsulfohite            | $\text{Cd}_2(\text{SO}_4)(\text{OH})_2$                                                                        | A  | 2024-088  | Namibia          | CNMNC Newsletter 84 - <i>Mineralogical Magazine</i> <b>89</b> (2025), 298; <i>European Journal of Mineralogy</i> <b>37</b> (2025), 249 |                                                                                    |
| Cadvanite               | $\text{Cd}(\text{VO}_3)_2$                                                                                     | A  | 2025-005  | USA              | <i>Canadian Journal of Mineralogy and Petrology</i> <b>64</b> (2026), 185                                                              |                                                                                    |
| Cadwaladerite           | $\text{Al}_2(\text{H}_2\text{O})(\text{OH})_4 \cdot n(\text{Cl}, \text{OH}, \text{H}_2\text{O})$               | Rd | 2019 s.p. | Chile            | <i>Academy of Natural Science of Philadelphia, Notulae Naturae</i> <b>80</b> (1941)                                                    | <i>Canadian Mineralogist</i> <b>57</b> (2019), 827                                 |
| Caesiumpharmacosiderite | $\text{CsFe}^{3+}_4[(\text{AsO}_4)_3(\text{OH})_4] \cdot 4\text{H}_2\text{O}$                                  | A  | 2013-096  | Chile            | CNMNC Newsletter 18 - <i>Mineralogical Magazine</i> <b>77</b> (2013), 3249                                                             |                                                                                    |
| Cafarsite               | $(\text{Ca}, \text{Na}, \square)_{19}\text{Ti}_8\text{Fe}^{3+}_4\text{Fe}^{2+}_4(\text{AsO}_3)_{28}\text{F}$   | A  | 1965-036  | Switzerland      | <i>Schweizerische Mineralogische und Petrographische Mitteilungen</i> <b>46</b> (1966), 367                                            | <i>European Journal of Mineralogy</i> <b>30</b> (2018), 859                        |
| Cafeosite               | $\text{Ca}_4\text{Fe}^{2+}_3\text{Fe}^{3+}_2\square\text{O}_6\text{S}_4$                                       | A  | 2021-022a | Oman (meteorite) | CNMNC Newsletter 77 - <i>Mineralogical Magazine</i> <b>88</b> (2024), 203; <i>European Journal of Mineralogy</i> <b>36</b> (2024), 165 |                                                                                    |
| Cafetite                | $\text{CaTi}_2\text{O}_5(\text{H}_2\text{O})$                                                                  | A  | 1962 s.p. | Russia           | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>88</b> (1959), 444                                                       | <i>American Mineralogist</i> <b>88</b> (2003), 424                                 |
| Cahnite                 | $\text{Ca}_2\text{B}(\text{AsO}_4)(\text{OH})_4$                                                               | G  | 1927      | USA              | <i>American Mineralogist</i> <b>12</b> (1927), 149                                                                                     | <i>American Mineralogist</i> <b>46</b> (1961), 1077                                |
| Cairncrossite           | $\text{Sr}_2\text{Ca}_{7-x}\text{Na}_{2x}(\text{Si}_4\text{O}_{10})_4(\text{OH})_2(\text{H}_2\text{O})_{15-x}$ | A  | 2013-012  | South Africa     | <i>European Journal of Mineralogy</i> <b>28</b> (2016), 495                                                                            |                                                                                    |
| Calamaite               | $\text{Na}_2\text{TiO}(\text{SO}_4)_2(\text{H}_2\text{O})_2$                                                   | A  | 2016-036  | Chile            | <i>European Journal of Mineralogy</i> <b>30</b> (2018), 801                                                                            |                                                                                    |
| Calaverite              | $\text{AuTe}_2$                                                                                                | G  | 1868      | USA              | <i>American Journal of Science and Arts</i> <b>95</b> (1868), 305                                                                      | <i>American Mineralogist</i> <b>94</b> (2009), 728                                 |
| Calciborite             | $\text{CaB}_2\text{O}_4$                                                                                       | G  | 1956      | Russia           | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>85</b> (1956), 76                                                        | <i>Doklady Akademii Nauk SSSR</i> <b>251</b> (1980), 1122                          |
| Calcinaksite            | $\text{KNaCa}(\text{Si}_4\text{O}_{10})(\text{H}_2\text{O})$                                                   | A  | 2013-081  | Germany          | <i>Mineralogy and Petrology</i> <b>109</b> (2015), 397                                                                                 | <i>Acta Crystallographica</i> <b>B70</b> (2014), 768                               |
| Calcioancylite-(Ce)     | $(\text{CeCa})(\text{CO}_3)_2(\text{OH})(\text{H}_2\text{O})$                                                  | Rn | 1987 s.p. | Russia           | <i>Comptes Rendus de l'Academie des Sciences de Russie</i> (1922), 59                                                                  | <i>Crystallography Reports</i> <b>58</b> (2013), 216                               |
| Calcioancylite-(La)     | $(\text{LaCa})(\text{CO}_3)_2(\text{OH})(\text{H}_2\text{O})$                                                  | A  | 2021-090  | China            | <i>Mineralogical Magazine</i> <b>87</b> (2023), 554                                                                                    |                                                                                    |

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|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------|-----|------------|------------------|----------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| Calcioancylite-(Nd)   | $\text{Nd}_3\text{Ca}(\text{CO}_3)_4(\text{OH})_3(\text{H}_2\text{O})$                                                                     | Rn  | 1989-008   | Italy            | <i>European Journal of Mineralogy</i> <b>2</b> (1990), 413                                                                             |                                                                                             |
| Calcioandyrrobertsite | $\text{KCaCu}_5(\text{AsO}_4)_4[\text{As}(\text{OH})_2\text{O}_2](\text{H}_2\text{O})_2$                                                   | Rn  | 1997-023   | Namibia          | <i>Mineralogical Record</i> <b>30</b> (1999), 181                                                                                      | <i>European Journal of Mineralogy</i> <b>16</b> (2004), 163                                 |
| Calcioaravaipaite     | $\text{PbCa}_2\text{AlF}_9$                                                                                                                | A   | 1994-018   | USA              | <i>Mineralogical Record</i> <b>27</b> (1996), 293                                                                                      | <i>American Mineralogist</i> <b>96</b> (2011), 402                                          |
| Calcioburbankite      | $\text{Na}_3(\text{Ca,Ce,Sr,La})_3(\text{CO}_3)_5$                                                                                         | A   | 1993-001   | Canada           | <i>Canadian Mineralogist</i> <b>33</b> (1995), 1231                                                                                    | <i>Crystallography Reports</i> <b>46</b> (2001), 927                                        |
| Calciocatapleiite     | $\text{CaZr}(\text{Si}_3\text{O}_9)(\text{H}_2\text{O})_2$                                                                                 | Rn  | 2007 s.p.  | Russia           | <i>Doklady Akademii Nauk SSSR</i> <b>154</b> (1964), 607                                                                               | <i>Crystallography Reports</i> <b>61</b> (2016), 376                                        |
| Calciocopiapite       | $\text{CaFe}^{3+}_4(\text{SO}_4)_6(\text{OH})_2(\text{H}_2\text{O})_{14} \cdot 6\text{H}_2\text{O}$                                        | A   | 1967 s.p.  | Azerbaijan       | <i>Trudy Azerbaidzhanskogo Geograficheskogo Obshchestva</i> (1960), 49                                                                 |                                                                                             |
| Calciodelrioite       | $\text{Ca}(\text{VO}_3)_2(\text{H}_2\text{O})_4$                                                                                           | A   | 2012-031   | USA              | <i>Mineralogical Magazine</i> <b>76</b> (2012), 2803                                                                                   |                                                                                             |
| Calcioferrite         | $\text{Ca}_4\text{MgFe}^{3+}_4(\text{PO}_4)_6(\text{OH})_4(\text{H}_2\text{O})_{12}$                                                       | G   | 1858       | Germany          | <i>Neues Jahrbuch für Mineralogie, Geognosie, Geologie und Petrefaktenkunde</i> (1858), 287                                            | <i>Acta Crystallographica</i> <b>E70</b> (2014), i16                                        |
| Calciohatertite       | $\text{NaNaCa}(\text{CaFe}^{3+})(\text{AsO}_4)_3$                                                                                          | A   | 2021-013   | Russia           | CNMNC Newsletter 62 - <i>Mineralogical Magazine</i> <b>85</b> (2021), 634; <i>European Journal of Mineralogy</i> <b>33</b> (2021), 479 |                                                                                             |
| Calciohilairite       | $\text{CaZrSi}_3\text{O}_9(\text{H}_2\text{O})_3$                                                                                          | A   | 1984-023   | USA              | <i>American Mineralogist</i> <b>73</b> (1988), 1191                                                                                    | <i>European Journal of Mineralogy</i> <b>21</b> (2009), 495                                 |
| Calciojohillerite     | $\text{NaCaMg}_3(\text{AsO}_4)_3$                                                                                                          | A   | 2016-068   | Russia           | <i>Mineralogical Magazine</i> <b>85</b> (2021), 215                                                                                    | <i>Mineralogical Magazine</i> <b>89</b> (2025), 526                                         |
| Calciolangbeinite     | $\text{K}_2\text{Ca}_2(\text{SO}_4)_3$                                                                                                     | A   | 2011-067   | Russia           | <i>Mineralogical Magazine</i> <b>76</b> (2012), 673                                                                                    | <i>Mineralogical Magazine</i> <b>86</b> (2022), 557                                         |
| Calciomurmanite       | $(\text{Ca}\square)\text{Ti}_2(\text{Na}\square)\text{Ti}_2(\text{Si}_2\text{O}_7)_2\text{O}_2[\text{O}(\text{OH})](\text{H}_2\text{O})_4$ | Rd  | 2014-103   | Russia           | <i>European Journal of Mineralogy</i> <b>28</b> (2016), 835                                                                            |                                                                                             |
| Calcio-olivine        | $\text{Ca}_2(\text{SiO}_4)$                                                                                                                | Rd  | 2007 s.p.  | Germany / Russia | <i>Geology of Ore Deposits</i> <b>51</b> (2009), 741                                                                                   | <i>Crystallography Reports</i> <b>53</b> (2008), 404                                        |
| Calciopetersite       | $\text{CaCu}_6(\text{PO}_4)_2(\text{PO}_3\text{OH})(\text{OH})_6(\text{H}_2\text{O})_3$                                                    | A   | 2001-004   | Czech Republic   | <i>Canadian Mineralogist</i> <b>43</b> (2005), 1393                                                                                    | <i>Atti della Società Toscana di Scienze Naturali, Mem., Ser. A</i> <b>116</b> (2011), 17   |
| Calciopharmacoalumite | $\text{Ca}_{0.5}\text{Al}_4(\text{AsO}_4)_3(\text{OH})_4 \cdot 5\text{H}_2\text{O}$                                                        | A   | 2021-085   | Kyrgyzstan       | CNMNC Newsletter 80 - <i>Mineralogical Magazine</i> <b>88</b> (2024), 627; <i>European Journal of Mineralogy</i> <b>36</b> (2024), 599 | <a href="https://doi.org/10.1180/mgm.2025.10181">https://doi.org/10.1180/mgm.2025.10181</a> |
| Calciosamarskite      | $(\text{Ca,Fe,Y})(\text{Nb,Ta,Ti})\text{O}_4$                                                                                              | Q   | 2022 s.p.  | Canada           | <i>American Mineralogist</i> <b>13</b> (1928), 63                                                                                      | <i>Mineralogical Magazine</i> <b>63</b> (1999), 27                                          |
| Calciotantite         | $\text{CaTa}_4\text{O}_{11}$                                                                                                               | A   | 1981-039   | Russia           | <i>Mineralogicheskij Zhurnal</i> <b>4(3)</b> (1982), 75                                                                                | <i>Canadian Mineralogist</i> <b>37</b> (1999), 1289                                         |
| Calciouranoite        | $(\text{Ca,Ba,Pb,K,Na})\text{U}_2\text{O}_7 \cdot 5\text{H}_2\text{O}$                                                                     | A   | 1973-004   | Russia           | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>103</b> (1974), 108                                                      | <i>Doklady Akademii Nauk SSSR</i> <b>262</b> (1982), 209                                    |
| Calcioursilite        | $\text{Ca}_4(\text{UO}_2)_4(\text{Si}_2\text{O}_5)_5(\text{OH})_6 \cdot 15\text{H}_2\text{O}$                                              | G   | 1957       | Tajikistan       | <i>Voprosy Geologii Urana. Atomic Press, Moscow</i> (1957), 73                                                                         | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>106</b> (1977), 553           |
| Calcioveatchite       | $\text{SrCaB}_{11}\text{O}_{16}(\text{OH})_5(\text{H}_2\text{O})$                                                                          | A   | 2020-011   | Russia           | <i>Minerals</i> <b>14</b> (2024), 901                                                                                                  |                                                                                             |
| Calcite               | $\text{Ca}(\text{CO}_3)$                                                                                                                   | G   | 1836       | unknown          | <i>Magazin für die Oryktographie von Sachsen</i> <b>7</b> (1836), 118                                                                  | <i>Canadian Mineralogist</i> <b>48</b> (2010), 1225                                         |
| Calcjarlite           | $\text{Na}_2(\text{Ca},\square)_{14}(\text{Mg},\square)_2\text{Al}_{12}\text{F}_{64}(\text{OH})_4$                                         | A ? | 1973       | Russia           | <i>Konstitutsiya i Svoistva Mineralov</i> <b>7</b> (1973), 131                                                                         |                                                                                             |
| Calclacite            | $\text{Ca}(\text{CH}_3\text{COO})\text{Cl}(\text{H}_2\text{O})_4 \cdot \text{H}_2\text{O}$                                                 | G   | 1945       | Belgium          | <i>Bulletin du Musée Royal d'Histoire Naturelle de Belgique</i> <b>21</b> (1945), n. 26                                                | <i>Periodico di Mineralogia</i> <b>39</b> (1970), 145                                       |
| Calcurmolite          | $(\text{Ca}_{1-x}\text{Na}_x)_2(\text{UO}_2)_3(\text{MoO}_4)_2(\text{OH})_{6-x} \cdot n\text{H}_2\text{O}$                                 | A   | 1988-xxx ? | Armenia          | <i>Yadernoe Goryuchee i Reaktornye Metally</i> <b>3</b> (1959), 160                                                                    | <i>Journal of Geosciences</i> <b>65</b> (2020), 15                                          |

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| Calcybeborosilite-(Y) | $(Y, REE, Ca)_2(B, Be)_2(SiO_4)_2(OH, O)_2$                  | Q  | ?         | Tajikistan                                  | <i>Moscow University Geology Bulletin</i> <b>55</b> (2000), 62                        | <i>Kristallografiya</i> <b>41</b> (1996), 235                  |
| Calderite             | $Mn^{2+}_3Fe^{3+}_2(SiO_4)_3$                                | G  | 1909      | India (or unknown)                          | <i>Memoirs of the Geological Survey of India</i> <b>37</b> (1909), 182                | <i>Canadian Mineralogist</i> <b>17</b> (1979), 569             |
| Calderónite           | $Pb_2Fe^{3+}(VO_4)_2(OH)$                                    | A  | 2001-022  | Spain                                       | <i>American Mineralogist</i> <b>88</b> (2003), 1703                                   |                                                                |
| Caledonite            | $Cu_2Pb_5(SO_4)_3(CO_3)(OH)_6$                               | G  | 1832      | United Kingdom                              | Traité Élémentaire de Minéralogie, 2nd ed. Verdière, Paris (1832), 367                | <i>Canadian Mineralogist</i> <b>47</b> (2009), 649             |
| Calkinsite-(Ce)       | $Ce_2(CO_3)_3 \cdot 4H_2O$                                   | Rn | 1987 s.p. | USA                                         | <i>American Mineralogist</i> <b>38</b> (1953), 1169                                   |                                                                |
| Callaghanite          | $Cu_2Mg_2(CO_3)(OH)_6(H_2O)_2$                               | G  | 1954      | USA                                         | <i>American Mineralogist</i> <b>39</b> (1954), 630                                    | <i>American Mineralogist</i> <b>58</b> (1973), 551             |
| Calomel               | HgCl                                                         | G  | 1825      | Germany / Slovenia / Spain / Czech Republic | Treatise on Mineralogy, vol I. Archibald Constable, Edinburgh (1825), 415             | <i>Zeitschrift für Kristallographie</i> <b>187</b> (1989), 305 |
| Calumetite            | $CaCu_4(OH)_8Cl_2(H_2O)_{3.5}$                               | Rd | 2019 s.p. | USA                                         | <i>American Mineralogist</i> <b>48</b> (1963), 614                                    |                                                                |
| Calvertite            | $Cu_5Ge_{0.5}S_4$                                            | A  | 2006-030  | Namibia                                     | <i>Canadian Mineralogist</i> <b>45</b> (2007), 1519                                   | <i>Computational Condensed Matter</i> <b>32</b> (2022), e00715 |
| Calzirtite            | $Ca_2Zr_5Ti_2O_{16}$                                         | A  | 1967 s.p. | Russia                                      | <i>Doklady Akademii Nauk SSSR</i> <b>137</b> (1961), 681                              | <i>Journal of Alloys and Compounds</i> <b>682</b> (2016), 284  |
| Camanchacaite         | $Na\Box CaMg_2(AsO_4)_2[AsO_2(OH)_2]$                        | A  | 2018-025  | Chile                                       | <i>Mineralogical Magazine</i> <b>83</b> (2019), 655                                   |                                                                |
| Cámaraite             | $NaBa_3Fe^{2+}_8Ti_4(Si_2O_7)_4O_4(OH)_4F_3$                 | Rd | 2009-011  | Kazakhstan                                  | <i>Mineralogical Magazine</i> <b>73</b> (2009), 847                                   | <i>Mineralogical Magazine</i> <b>73</b> (2009), 855            |
| Camaronesite          | $Fe^{3+}_2(PO_3OH)_2(SO_4)(H_2O)_4 \cdot 1-2H_2O$            | A  | 2012-094  | Chile                                       | <i>Mineralogical Magazine</i> <b>77</b> (2013), 453                                   |                                                                |
| Camérolaite           | $Cu_6Al_3(OH)_{18}(H_2O)_2[Sb(OH)_6](SO_4)$                  | Rn | 1990-036  | France                                      | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1991), 481                         | <i>Mineralogical Magazine</i> <b>78</b> (2014), 1527           |
| Cameronite            | $Cu_{5-x}(Cu, Ag)_{3+x}Te_{10}$ ( $x = 0.43$ )               | A  | 1984-069  | USA                                         | <i>Canadian Mineralogist</i> <b>24</b> (1986), 379                                    | <i>Canadian Mineralogist</i> <b>52</b> (2014), 423             |
| Camgasite             | $CaMg(AsO_4)(OH) \cdot 5H_2O$                                | A  | 1988-031  | Germany                                     | <i>Aufschluss</i> <b>40</b> (1989), 369                                               |                                                                |
| Caminitite            | $Mg_7(SO_4)_5(OH)_4(H_2O)$                                   | A  | 1983-015  | Pacific Ocean                               | <i>American Mineralogist</i> <b>71</b> (1986), 819                                    | <i>Acta Crystallographica</i> <b>B53</b> (1997), 358           |
| Campigliaite          | $Cu_4Mn^{2+}(SO_4)_2(OH)_6(H_2O)_4$                          | A  | 1981-001  | Italy                                       | <i>American Mineralogist</i> <b>67</b> (1982), 385                                    | <i>American Mineralogist</i> <b>67</b> (1982), 388             |
| Campostriniite        | $(Bi_{2.5}Na_{0.5})(NH_4)_2Na_2(SO_4)_6(H_2O)$               | A  | 2013-086a | Italy                                       | <i>Mineralogical Magazine</i> <b>79</b> (2015), 1007                                  |                                                                |
| Canaphite             | $Na_2CaP_2O_7(H_2O)_4$                                       | A  | 1983-067  | USA                                         | <i>Mineralogical Record</i> <b>16</b> (1985), 467                                     | <i>American Mineralogist</i> <b>73</b> (1988), 168             |
| Canasite              | $K_3Na_3Ca_5Si_{12}O_{30}(OH)_4$                             | A  | 1962 s.p. | Russia                                      | <i>Trudy Mineralogicheskogo Muzeya Akademii Nauk SSSR</i> <b>9</b> (1959), 158        | <i>Mineralogicheskoy Zhurnal</i> <b>14</b> (1992), 71          |
| Canavesite            | $Mg_2(HBO_3)(CO_3) \cdot 5H_2O$                              | A  | 1977-025  | Italy                                       | <i>Canadian Mineralogist</i> <b>16</b> (1978), 69                                     |                                                                |
| Cancrinite            | $(Na, Ca, \Box)_8(Al_6Si_6)O_{24}(CO_3, SO_4)_2 \cdot 2H_2O$ | G  | 1833      | Russia                                      | Elemente der Krystallographie. Mittler, Berlin (1833), 155                            | <i>Crystals</i> <b>11</b> (2021), 280                          |
| Cancrisilite          | $Na_7(Si_7Al_5)O_{24}(CO_3) \cdot 3H_2O$                     | A  | 1990-013  | Russia                                      | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>120(6)</b> (1991), 80 | <i>Canadian Mineralogist</i> <b>49</b> (2011), 1129            |
| Canfieldite           | $Ag_8SnS_6$                                                  | G  | 1894      | Bolivia                                     | <i>American Journal of Science</i> <b>47</b> (1894), 451                              | <i>Mineralogical Magazine</i> <b>89</b> (2025), 594            |
| Cannizzarite          | $Pb_8Bi_{10}S_{23}$                                          | G  | 1924      | Italy                                       | <i>Annali del R. Osservatorio Vesuviano</i> <b>1</b> (1924), 31-36                    | <i>Canadian Mineralogist</i> <b>48</b> (2010), 483             |
| Cannonite             | $Bi_2O(SO_4)(OH)_2$                                          | A  | 1992-002  | USA                                         | <i>Mineralogical Magazine</i> <b>56</b> (1992), 605                                   | <i>Mineralogical Magazine</i> <b>77</b> (2013), 3067           |
| Canosioite            | $Ba_2Fe^{3+}(AsO_4)_2(OH)$                                   | A  | 2015-030  | Italy                                       | <i>Mineralogical Magazine</i> <b>81</b> (2017), 305                                   |                                                                |
| Canutite              | $Na\Box MnMn_2(AsO_4)[AsO_3(OH)]_2$                          | A  | 2013-070  | Chile                                       | <i>Mineralogical Magazine</i> <b>78</b> (2014), 787                                   |                                                                |
| Caosite               | $Ca(C_2O_4)(H_2O)_3$                                         | A  | 1996-012  | Italy                                       | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1997), 84                          | <i>Mineralogical Magazine</i> <b>69</b> (2005), 77             |
| Capgaronnite          | AgHgClS                                                      | A  | 1990-011  | France                                      | <i>American Mineralogist</i> <b>77</b> (1992), 197                                    |                                                                |

|                        |                                                                                                                                                                                                                                                                 |    |           |                     |                                                                                                                                        |                                                                           |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----------|---------------------|----------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|
| Cappelenite-(Y)        | BaY <sub>6</sub> B <sub>6</sub> Si <sub>3</sub> O <sub>24</sub> F <sub>2</sub>                                                                                                                                                                                  | Rn | 1987 s.p. | Norway              | <i>Geologiska Föreningens i Stockholm Förhandlingar</i> <b>7</b> (1884) 598                                                            | <i>American Mineralogist</i> <b>69</b> (1984), 190                        |
| Capranicaite           | KCaNaAl <sub>4</sub> B <sub>4</sub> Si <sub>2</sub> O <sub>18</sub>                                                                                                                                                                                             | A  | 2009-086  | Italy               | <i>Mineralogical Magazine</i> <b>75</b> (2011), 33                                                                                     |                                                                           |
| Caracolite             | Na <sub>2</sub> (Pb <sub>2</sub> Na)(SO <sub>4</sub> ) <sub>3</sub> Cl                                                                                                                                                                                          | G  | 1886      | Chile               | <i>Sitzungsberichte der Königlich Preussischen Akademie der Wissenschaften</i> <b>48</b> (1886), 1045                                  | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1969), 58              |
| Carbaborite            | Ca <sub>2</sub> Mg[B(OH) <sub>4</sub> ] <sub>2</sub> (CO <sub>3</sub> ) <sub>2</sub> (H <sub>2</sub> O) <sub>4</sub>                                                                                                                                            | A  | 1967 s.p. | China               | <i>Scientia Sinica</i> <b>13</b> (1964), 813                                                                                           | <i>Bulletin de Minéralogie</i> <b>104</b> (1981), 578                     |
| Carbobystrite          | Na <sub>8</sub> (Al <sub>6</sub> Si <sub>6</sub> O <sub>24</sub> )(CO <sub>3</sub> )·4H <sub>2</sub> O                                                                                                                                                          | A  | 2009-028  | Russia              | <i>Canadian Mineralogist</i> <b>48</b> (2010), 291                                                                                     |                                                                           |
| Carbocalumite          | Ca <sub>4</sub> Al <sub>2</sub> (OH) <sub>12</sub> (CO <sub>3</sub> )·6H <sub>2</sub> O                                                                                                                                                                         | A  | 2021-106  | Israel              | CNMNC Newsletter 66 - <i>Mineralogical Magazine</i> <b>86</b> (2022), 359; <i>European Journal of Mineralogy</i> <b>34</b> (2022), 253 |                                                                           |
| Carbocernaite          | SrCa(CO <sub>3</sub> ) <sub>2</sub>                                                                                                                                                                                                                             | A  | 1967 s.p. | Russia              | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>90</b> (1961), 42                                                        | <i>American Mineralogist</i> <b>102</b> (2017), 1340                      |
| Carboferriphoxite      | [(NH <sub>4</sub> )K(H <sub>2</sub> CO <sub>3</sub> )] [Fe <sup>3+</sup> (HPO <sub>4</sub> )(H <sub>2</sub> PO <sub>4</sub> )(C <sub>2</sub> O <sub>4</sub> )]                                                                                                  | A  | 2023-097  | USA                 | <i>Mineralogical Magazine</i> <b>89</b> (2025), 162                                                                                    |                                                                           |
| Carboirite             | Fe <sup>2+</sup> Al <sub>2</sub> O(GeO <sub>4</sub> )(OH) <sub>2</sub>                                                                                                                                                                                          | A  | 1980-066  | France              | <i>Tschermaks Mineralogische und Petrographische Mitteilungen</i> <b>31</b> (1983), 97                                                 |                                                                           |
| Carbokentbrooksite     | (Na,□) <sub>12</sub> (Na,Ce) <sub>3</sub> Ca <sub>6</sub> Mn <sub>3</sub> Zr <sub>3</sub> NbSi <sub>25</sub> O <sub>73</sub> (OH) <sub>3</sub> (CO <sub>3</sub> )·H <sub>2</sub> O                                                                              | A  | 2002-056  | Tajikistan          | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>132(5)</b> (2003), 40                                                  |                                                                           |
| Carbonatecyanotrichite | Cu <sub>4</sub> Al <sub>2</sub> (CO <sub>3</sub> )(OH) <sub>12</sub> (H <sub>2</sub> O) <sub>2</sub>                                                                                                                                                            | Rn | 1967 s.p. | Kazakhstan          | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>92</b> (1963), 458                                                       | <i>Canadian Mineralogist</i> <b>47</b> (2009), 635                        |
| Cardite                | Zn <sub>5.5</sub> (AsO <sub>4</sub> ) <sub>2</sub> (AsO <sub>3</sub> OH)(OH) <sub>3</sub> (H <sub>2</sub> O) <sub>3</sub>                                                                                                                                       | A  | 2015-125  | Australia           | <i>Mineralogy and Petrology</i> <b>115</b> (2021), 467                                                                                 |                                                                           |
| Carducciite            | (AgSb)Pb <sub>6</sub> (As,Sb) <sub>8</sub> S <sub>20</sub>                                                                                                                                                                                                      | A  | 2013-006  | Italy               | <i>Mineralogical Magazine</i> <b>78</b> (2014), 1775                                                                                   |                                                                           |
| Caresite               | Fe <sup>2+</sup> <sub>4</sub> Al <sub>2</sub> (OH) <sub>12</sub> (CO <sub>3</sub> )·3H <sub>2</sub> O                                                                                                                                                           | A  | 1992-030  | Canada              | <i>Canadian Mineralogist</i> <b>35</b> (1997), 1541                                                                                    |                                                                           |
| Carletonite            | KNa <sub>4</sub> Ca <sub>4</sub> Si <sub>8</sub> O <sub>18</sub> (CO <sub>3</sub> ) <sub>4</sub> (OH)(H <sub>2</sub> O)                                                                                                                                         | A  | 1969-016  | Canada              | <i>American Mineralogist</i> <b>56</b> (1971), 1855                                                                                    | <i>Mineralogical Magazine</i> <b>87</b> (2023), 356                       |
| Carletonmooreite       | Ni <sub>3</sub> Si                                                                                                                                                                                                                                              | A  | 2018-068  | USA (meteorite)     | <i>American Mineralogist</i> <b>106</b> (2021), 1828                                                                                   |                                                                           |
| Carlfrancisite         | Mn <sup>2+</sup> <sub>3</sub> (Mn <sup>2+</sup> ,Mg,Fe <sup>3+</sup> ,Al) <sub>42</sub> (As <sup>3+</sup> O <sub>3</sub> ) <sub>2</sub> (As <sup>5+</sup> O <sub>4</sub> ) <sub>4</sub> [(Si,As <sup>5+</sup> )O <sub>4</sub> ] <sub>8</sub> (OH) <sub>42</sub> | A  | 2012-033  | Namibia             | <i>American Mineralogist</i> <b>98</b> (2013), 1693                                                                                    | <i>Mineralogical Magazine</i> <b>82</b> (2018), 1101                      |
| Carlfriesite           | CaTe <sup>4+</sup> <sub>2</sub> Te <sup>6+</sup> O <sub>8</sub>                                                                                                                                                                                                 | A  | 1973-013  | Mexico              | <i>Mineralogical Magazine</i> <b>40</b> (1975), 127                                                                                    | <i>Mineralogical Magazine</i> <b>83</b> (2019), 539                       |
| Carlgieseckeite-(Nd)   | NaNdCa <sub>3</sub> (PO <sub>4</sub> ) <sub>3</sub> F                                                                                                                                                                                                           | A  | 2010-036  | Denmark (Greenland) | <i>Canadian Mineralogist</i> <b>50</b> (2012), 571                                                                                     |                                                                           |
| Carlhintzeite          | Ca <sub>2</sub> AlF <sub>7</sub> (H <sub>2</sub> O)                                                                                                                                                                                                             | A  | 1978-031  | Germany             | <i>Canadian Mineralogist</i> <b>17</b> (1979), 103                                                                                     | <i>Mineralogical Magazine</i> <b>74</b> (2010), 623                       |
| Carlinitite            | Tl <sub>2</sub> S                                                                                                                                                                                                                                               | A  | 1974-062  | USA                 | <i>American Mineralogist</i> <b>60</b> (1975), 559                                                                                     | <i>Journal of Solid State Chemistry</i> <b>168</b> (2002), 322            |
| Carlosbarbosaite       | (UO <sub>2</sub> ) <sub>2</sub> Nb <sub>2</sub> O <sub>6</sub> (OH) <sub>2</sub> (H <sub>2</sub> O) <sub>2</sub>                                                                                                                                                | A  | 2010-047  | Brazil              | <i>Mineralogical Magazine</i> <b>76</b> (2012), 75                                                                                     | <i>Canadian Journal of Mineralogy and Petrology</i> <b>61</b> (2023), 927 |
| Carlosruizite          | K <sub>3</sub> Na <sub>2</sub> Na <sub>3</sub> Mg <sub>5</sub> (IO <sub>3</sub> ) <sub>6</sub> (SeO <sub>4</sub> ) <sub>6</sub> (H <sub>2</sub> O) <sub>6</sub>                                                                                                 | A  | 1993-020  | Chile               | <i>American Mineralogist</i> <b>79</b> (1994), 1003                                                                                    |                                                                           |
| Carlosturanite         | (Mg,Fe <sup>2+</sup> ,Ti) <sub>21</sub> (Si,Al) <sub>12</sub> O <sub>28</sub> (OH) <sub>34</sub> ·H <sub>2</sub> O                                                                                                                                              | A  | 1984-009  | Italy               | <i>American Mineralogist</i> <b>70</b> (1985), 767                                                                                     | <i>American Mineralogist</i> <b>70</b> (1985), 773                        |
| Carlsbergite           | CrN                                                                                                                                                                                                                                                             | A  | 1971-026  | Denmark (Greenland) | <i>Nature Physical Science</i> <b>233</b> (1971), 113                                                                                  | <i>Mineralogical Magazine</i> <b>70</b> (2006), 373                       |
| Carlsonite             | (NH <sub>4</sub> ) <sub>5</sub> Fe <sup>3+</sup> <sub>3</sub> O(SO <sub>4</sub> ) <sub>6</sub> (H <sub>2</sub> O) <sub>7</sub>                                                                                                                                  | A  | 2014-067  | USA                 | <i>American Mineralogist</i> <b>101</b> (2016), 2095                                                                                   |                                                                           |
| Carmeltazite           | ZrAl <sub>2</sub> Ti <sub>4</sub> O <sub>11</sub>                                                                                                                                                                                                               | A  | 2018-103  | Israel              | <i>Minerals</i> <b>8</b> (2018), 601                                                                                                   |                                                                           |
| Carmichaelite          | (Ti,Cr,Fe)(O,OH) <sub>2</sub>                                                                                                                                                                                                                                   | A  | 1996-062  | USA                 | <i>American Mineralogist</i> <b>85</b> (2000), 792                                                                                     |                                                                           |

|                  |                                                                                                                                                                                                              |   |           |                                  |                                                                                           |                                                                                     |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|-----------|----------------------------------|-------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Carminite        | $\text{PbFe}^{3+}_2(\text{AsO}_4)_2(\text{OH})_2$                                                                                                                                                            | G | 1850      | Germany                          | <i>Annalen der Physik und Chemie</i> <b>80</b> (1850), 391                                | <i>Mineralogical Magazine</i> <b>60</b> (1996), 805                                 |
| Carnallite       | $\text{KMgCl}_3 \cdot 6\text{H}_2\text{O}$                                                                                                                                                                   | G | 1856      | Germany                          | <i>Annalen der Physik und Chemie</i> <b>98</b> (1856), 161                                | <i>American Mineralogist</i> <b>70</b> (1985), 1309                                 |
| Carnotite        | $\text{K}_2(\text{UO}_2)_2(\text{VO}_4)_2 \cdot 3\text{H}_2\text{O}$                                                                                                                                         | G | 1899      | USA                              | <i>Bulletin de la Société Française de Minéralogie</i> <b>22</b> (1899), 26               | <i>American Mineralogist</i> <b>50</b> (1965), 825                                  |
| Carobbiite       | KF                                                                                                                                                                                                           | G | 1956      | Italy                            | <i>Rendiconti della Società Mineralogica Italiana</i> <b>12</b> (1956), 212               |                                                                                     |
| Carpathite       | $\text{C}_{24}\text{H}_{12}$                                                                                                                                                                                 | A | 1971 s.p. | Ukraine                          | <i>Mineralogicheskii Sbornik</i> <b>9</b> (1955), 120                                     | <i>American Mineralogist</i> <b>92</b> (2007), 1262                                 |
| Carpholite       | $\text{Mn}^{2+}\text{Al}_2\text{Si}_2\text{O}_6(\text{OH})_4$                                                                                                                                                | G | 1817      | Czech Republic                   | Letztes Mineral-System. Craz und Gerlach und Carl Gerold, Freiberg und Wien (1817), 43    | <i>American Mineralogist</i> <b>74</b> (1989), 1084                                 |
| Carraraite       | $\text{Ca}_3\text{Ge}(\text{SO}_4)(\text{CO}_3)(\text{OH})_6(\text{H}_2\text{O})_{12}$                                                                                                                       | A | 1998-002  | Italy                            | <i>American Mineralogist</i> <b>86</b> (2001), 1293                                       |                                                                                     |
| Carrboydite      | $(\text{Ni}_{1-x}\text{Al}_x)(\text{SO}_4)_{x/2}(\text{OH})_2 \cdot n\text{H}_2\text{O}$ ( $x < 0.5$ , $n > 3x/2$ )                                                                                          | Q | 1974-033  | Australia                        | <i>American Mineralogist</i> <b>61</b> (1976), 366                                        |                                                                                     |
| Carrollite       | $\text{CuCo}_2\text{S}_4$                                                                                                                                                                                    | G | 1852      | USA                              | <i>American Journal of Science and Arts</i> <b>13</b> (1852), 418                         | <i>Canadian Mineralogist</i> <b>46</b> (2008), 1317                                 |
| Caryinite        | $\text{NaCaCaMn}_2(\text{AsO}_4)_3$                                                                                                                                                                          | A | 1980 s.p. | Sweden                           | <i>Geologiska Föreningens i Stockholm Förhandlingar</i> <b>2</b> (1874), 178              | <i>Mineralogical Magazine</i> <b>57</b> (1993), 721                                 |
| Caryochroite     | $(\text{Na}, \text{Sr})_3(\text{Fe}^{3+}, \text{Mg})_{10}\text{Ti}_2\text{Si}_{12}\text{O}_{37}(\text{H}_2\text{O}, \text{O}, \text{OH})_{17}$                                                               | A | 2005-031  | Russia                           | <i>Canadian Mineralogist</i> <b>44</b> (2006), 1331                                       | <i>Doklady Earth Sciences</i> <b>510</b> (2023), 415                                |
| Caryopilite      | $\text{Mn}^{2+}_3\text{Si}_2\text{O}_5(\text{OH})_4$                                                                                                                                                         | A | 1967 s.p. | Sweden                           | <i>Geologiska Föreningens i Stockholm Förhandlingar</i> <b>11</b> (1889), 27              | <i>Canadian Mineralogist</i> <b>36</b> (1998), 163                                  |
| Cascandite       | $\text{CaScSi}_3\text{O}_8(\text{OH})$                                                                                                                                                                       | A | 1980-011  | Italy                            | <i>American Mineralogist</i> <b>67</b> (1982), 599                                        | <i>American Mineralogist</i> <b>67</b> (1982), 604                                  |
| Caseyite         | $[(\text{V}^{5+}_2\text{O}_2)\text{Al}_{7.5}(\text{OH})_{15}(\text{H}_2\text{O})_{13}]_2[\text{H}_2\text{V}^{4+}\text{V}^{5+}_9\text{O}_{28}][\text{V}^{5+}_{10}\text{O}_{28}]_2 \cdot 90\text{H}_2\text{O}$ | A | 2019-002  | USA                              | <i>American Mineralogist</i> <b>105</b> (2020), 123                                       |                                                                                     |
| Cassagnaite      | $\text{Ca}_4\text{Fe}^{3+}_4\text{V}^{3+}_2(\text{OH})_6\text{O}_2(\text{Si}_3\text{O}_{10})(\text{SiO}_4)_2$                                                                                                | A | 2006-019a | Italy                            | <i>European Journal of Mineralogy</i> <b>20</b> (2008), 95                                |                                                                                     |
| Cassedanneite    | $\text{Pb}_5(\text{VO}_4)_2(\text{CrO}_4)_2(\text{H}_2\text{O})$                                                                                                                                             | A | 1984-063  | Russia                           | <i>Comptes Rendus de l'Académie des Sciences de Paris, Ser. II</i> <b>306</b> (1988), 125 |                                                                                     |
| Cassidyite       | $\text{Ca}_2\text{Ni}(\text{PO}_4)_2(\text{H}_2\text{O})_2$                                                                                                                                                  | A | 1966-024  | Australia                        | <i>American Mineralogist</i> <b>52</b> (1967), 1190                                       |                                                                                     |
| Cassiterite      | $\text{SnO}_2$                                                                                                                                                                                               | G | 1832      | United Kingdom                   | Traité Élémentaire de Minéralogie, 2nd ed. Verdière, Paris (1832), 618                    | <i>Physics and Chemistry of Minerals</i> <b>46</b> (2019), 987                      |
| Castellaroite    | $\text{Mn}^{2+}_3(\text{AsO}_4)_2(\text{H}_2\text{O})_4 \cdot 0.5\text{H}_2\text{O}$                                                                                                                         | A | 2015-071  | Italy                            | <i>European Journal of Mineralogy</i> <b>28</b> (2016), 687                               |                                                                                     |
| Caswellsilverite | $\text{NaCrS}_2$                                                                                                                                                                                             | A | 1981-012a | USA                              | <i>American Mineralogist</i> <b>67</b> (1982), 132                                        |                                                                                     |
| Catalanoite      | $\text{Na}_2(\text{HPO}_4) \cdot 8\text{H}_2\text{O}$                                                                                                                                                        | A | 2002-008  | Argentina                        | <i>Acta del XV Congreso Geológico Argentino, El Calatate</i> <b>1</b> (2002), 465         |                                                                                     |
| Catamarcaite     | $\text{Cu}_6\text{GeWS}_8$                                                                                                                                                                                   | A | 2003-020  | Argentina                        | <i>Canadian Mineralogist</i> <b>44</b> (2006), 1481                                       |                                                                                     |
| Catapleiite      | $\text{Na}_2\text{Zr}(\text{Si}_3\text{O}_9)(\text{H}_2\text{O})_2$                                                                                                                                          | G | 1850      | Norway                           | <i>Annalen der Physik und Chemie</i> <b>79</b> (1850), 299                                | <i>Crystallography Reports</i> <b>58</b> (2013), 401                                |
| Cattierite       | $\text{CoS}_2$                                                                                                                                                                                               | G | 1945      | Democratic Republic of the Congo | <i>American Mineralogist</i> <b>30</b> (1945), 483                                        | <i>Acta Crystallographica</i> <b>B47</b> (1991), 650                                |
| Cattiite         | $\text{Mg}_3(\text{PO}_4)_2(\text{H}_2\text{O})_{18} \cdot 4\text{H}_2\text{O}$                                                                                                                              | A | 2000-032  | Russia                           | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (2002), 160                             | <i>Zapiski Rossiyskogo Mineralogicheskogo Obshchestva</i> <b>142(2)</b> (2013), 120 |
| Cavansite        | $\text{Ca}(\text{V}^{4+}\text{O})(\text{Si}_4\text{O}_{10})(\text{H}_2\text{O})_4$                                                                                                                           | A | 1967-019  | USA                              | <i>American Mineralogist</i> <b>58</b> (1973), 405                                        | <i>European Journal of Mineralogy</i> <b>28</b> (2016), 5                           |

|                   |                                                                                                                                                                               |    |           |                     |                                                                                                               |                                                                |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----------|---------------------|---------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|
| Cavoite           | $\text{CaV}_3\text{O}_7$                                                                                                                                                      | A  | 2001-024  | Italy               | <i>European Journal of Mineralogy</i> <b>15</b> (2003), 181                                                   | <i>Journal of Solid State Chemistry</i> <b>103</b> (1993), 139 |
| Cayalsite-(Y)     | $\text{CaY}_6\text{Al}_2\text{Si}_4\text{O}_{18}\text{F}_6$                                                                                                                   | A  | 2011-094  | Norway              | <i>European Journal of Mineralogy</i> <b>27</b> (2015), 683                                                   |                                                                |
| Caysichite-(Y)    | $(\text{Ca}, \text{Yb}, \text{Er})_4\text{Y}_4(\text{Si}_8\text{O}_{20})(\text{CO}_3)_6(\text{OH})(\text{H}_2\text{O})_5 \cdot 2\text{H}_2\text{O}$                           | Rn | 1987 s.p. | Canada              | <i>Canadian Mineralogist</i> <b>12</b> (1974), 293                                                            | <i>Canadian Mineralogist</i> <b>16</b> (1978), 81              |
| Cebaite-(Ce)      | $\text{Ba}_3\text{Ce}_2(\text{CO}_3)_5\text{F}_2$                                                                                                                             | Rn | 1987 s.p. | China               | <i>Scientia Geologica Sinica</i> <b>4</b> (1983), 409                                                         |                                                                |
| Cebollite         | $\text{Ca}_5\text{Al}_2(\text{SiO}_4)_3(\text{OH})_4$                                                                                                                         | Q  | 1914      | USA                 | <i>Washington Academy of Sciences, Ser. IV</i> <b>16</b> (1914), 480                                          | <i>Mineralogical Magazine</i> <b>43</b> (1980), 583            |
| Čechite           | $\text{PbFe}^{2+}(\text{VO}_4)(\text{OH})$                                                                                                                                    | A  | 1980-068  | Czech Republic      | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1981), 520                                                 | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1989), 34   |
| Čejkaite          | $\text{Na}_4(\text{UO}_2)(\text{CO}_3)_3$                                                                                                                                     | A  | 1999-045  | Czech Republic      | <i>American Mineralogist</i> <b>88</b> (2003), 686                                                            | <i>Inorganic Chemistry Frontiers</i> <b>7</b> (2020), 4197     |
| Celadonite        | $\text{KMgFe}^{3+}\text{Si}_4\text{O}_{10}(\text{OH})_2$                                                                                                                      | A  | 1998 s.p. | Italy               | Generum et Specierum Mineralium, Secundum Ordines Naturales Digestorum Synopsis. Anton, Halle (1847), 185     | <i>Crystallography Reports</i> <b>50</b> (2005), 902           |
| Celestine         | $\text{Sr}(\text{SO}_4)$                                                                                                                                                      | A  | 1967 s.p. | USA                 | Journal de Physique, de Chimie, d'Histoire Naturelle et des Arts. Dugour, Paris (1792), 150                   | <i>American Mineralogist</i> <b>97</b> (2012), 661             |
| Celleriite        | $\square(\text{Mn}^{2+}_2\text{Al})\text{Al}_6(\text{Si}_6\text{O}_{18})(\text{BO}_3)_3(\text{OH})_3(\text{OH})$                                                              | A  | 2019-089  | Italy               | <i>American Mineralogist</i> <b>107</b> (2022), 31                                                            |                                                                |
| Celsian           | $\text{Ba}(\text{Al}_2\text{Si}_2\text{O}_8)$                                                                                                                                 | G  | 1895      | Sweden              | <i>Geologiska Föreningens i Stockholm Förhandlingar</i> <b>17</b> (1895), 578                                 | <i>Physics and Chemistry of Minerals</i> <b>44</b> (2017), 181 |
| Centennialite     | $\text{CaCu}_3\text{Cl}_2(\text{OH})_6(\text{H}_2\text{O})_{-0.7}$                                                                                                            | A  | 2013-110  | USA                 | <i>Mineralogical Magazine</i> <b>81</b> (2017), 1105                                                          | <i>Physics and Chemistry of Minerals</i> <b>43</b> (2016), 127 |
| Cerchiaraita-(Al) | $\text{Ba}_4\text{Al}_4(\text{Si}_4\text{O}_{12})\text{O}_2(\text{OH})_4\text{Cl}_2[\text{Si}_2\text{O}_3(\text{OH})_4]$                                                      | A  | 2012-011  | USA                 | <i>Mineralogical Magazine</i> <b>77</b> (2013), 69                                                            |                                                                |
| Cerchiaraita-(Fe) | $\text{Ba}_4\text{Fe}^{3+}_4(\text{Si}_4\text{O}_{12})\text{O}_2(\text{OH})_4\text{Cl}_2[\text{Si}_2\text{O}_3(\text{OH})_4]$                                                 | A  | 2012-012  | Italy / USA         | <i>Mineralogical Magazine</i> <b>77</b> (2013), 69                                                            |                                                                |
| Cerchiaraita-(Mn) | $\text{Ba}_4\text{Mn}^{3+}_4(\text{Si}_4\text{O}_{12})\text{O}_2(\text{OH})_4\text{Cl}_2[\text{Si}_2\text{O}_3(\text{OH})_4]$                                                 | Rn | 1999-012  | Italy               | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (2000), 373                                                 | <i>European Journal of Mineralogy</i> <b>16</b> (2004), 185    |
| Cerianite-(Ce)    | $\text{CeO}_2$                                                                                                                                                                | Rn | 1987 s.p. | Canada              | <i>American Mineralogist</i> <b>40</b> (1955), 560                                                            | <i>Minerals</i> <b>9</b> (2019), 267                           |
| Cerite-(CeCa)     | $(\text{Ce}_7\text{Ca}_2)\square\text{Mg}(\text{SiO}_4)_3(\text{SiO}_3\text{OH})_4(\text{OH})_3$                                                                              | Rd | 2023 s.p. | Sweden              | <i>Neues Allgemeines Journal der Chemie</i> <b>2</b> (1804), 397                                              | <i>American Mineralogist</i> <b>68</b> (1983), 996             |
| Cerium            | Ce                                                                                                                                                                            | Q  | 2002      | The Moon            | <i>Transactions (Doklady) of the Russian Academy of Sciences, Earth Science Section</i> <b>382</b> (2002), 83 |                                                                |
| Černýite          | $\text{Cu}_2\text{CdSnS}_4$                                                                                                                                                   | A  | 1976-057  | Canada              | <i>Canadian Mineralogist</i> <b>16</b> (1978), 139                                                            | <i>Canadian Mineralogist</i> <b>16</b> (1978), 147             |
| Cerrojojonite     | $\text{CuPbBiSe}_3$                                                                                                                                                           | A  | 2018-040  | Bolivia             | <i>Minerals</i> <b>8</b> (2018), 420                                                                          |                                                                |
| Ceruleite         | $\text{CuAl}_4(\text{AsO}_4)_2(\text{OH})_8(\text{H}_2\text{O})_4$                                                                                                            | Rn | 2007 s.p. | Chile               | <i>Bulletin de la Société Française de Minéralogie</i> <b>23</b> (1900), 147                                  | <i>Mineralogical Magazine</i> <b>82</b> (2018), 181            |
| Cerussite         | $\text{Pb}(\text{CO}_3)$                                                                                                                                                      | G  | 1845      | Italy               | Handbuch der Bestimmenden Mineralogie. Braumüller and Seidel, Wien (1845), 503                                | <i>American Mineralogist</i> <b>97</b> (2012), 707             |
| Cervandonite-(Ce) | $(\text{Ce}, \text{Nd}, \text{La})(\text{Fe}^{3+}, \text{Ti}, \text{Fe}^{2+}, \text{Al})_3\text{O}_2(\text{Si}_2\text{O}_7)_{1-x+y}(\text{AsO}_3)_{1+x-y}(\text{OH})_{3x-3y}$ | A  | 1986-044  | Italy / Switzerland | <i>Schweizerische Mineralogische und Petrographische Mitteilungen</i> <b>68</b> (1988), 125                   | <i>Canadian Mineralogist</i> <b>46</b> (2008), 423             |
| Cervantite        | $\text{Sb}^{3+}\text{Sb}^{5+}\text{O}_4$                                                                                                                                      | Rd | 1962 s.p. | Spain               | A System of Mineralogy, 3rd ed. Putnam, New York (1850), 417                                                  | <i>Acta Crystallographica</i> <b>B33</b> (1977), 1271          |
| Cervelleite       | $\text{Ag}_4\text{TeS}$                                                                                                                                                       | A  | 1986-018  | Mexico              | <i>European Journal of Mineralogy</i> <b>1</b> (1989), 371                                                    | <i>Mineralogy and Petrology</i> <b>109</b> (2015), 413         |
| Cesante           | $\text{Ca}_2\text{Na}_3(\text{SO}_4)_3(\text{OH})$                                                                                                                            | A  | 1980-023  | Italy               | <i>Mineralogical Magazine</i> <b>44</b> (1981), 269                                                           | <i>American Mineralogist</i> <b>87</b> (2002), 715             |

|                      |                                                                                                                                                                     |    |           |                                  |                                                                                                           |                                                                                             |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----------|----------------------------------|-----------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| Césarferreiraite     | $\text{Fe}^{2+}\text{Fe}^{3+}_2(\text{AsO}_4)_2(\text{OH})_2(\text{H}_2\text{O})_6 \cdot 2\text{H}_2\text{O}$                                                       | A  | 2012-099  | Brazil                           | <i>American Mineralogist</i> <b>99</b> (2014), 607                                                        |                                                                                             |
| Cesàrolite           | $\text{PbMn}^{4+}_3\text{O}_6(\text{OH})_2$                                                                                                                         | G  | 1920      | Tunisia                          | <i>Annales de la Société Géologique de Belgique</i> <b>43</b> (1920), 239                                 | <i>Chemie der Erde</i> <b>26</b> (1967), 256                                                |
| Cesbronite           | $\text{Cu}_3\text{Te}^{6+}\text{O}_4(\text{OH})_4$                                                                                                                  | Rd | 1974-006  | Mexico                           | <i>Mineralogical Magazine</i> <b>39</b> (1974), 744                                                       | <i>Acta Crystallographica</i> <b>B74</b> (2018), 24                                         |
| Cesiodymite          | $\text{CsKCu}_5\text{O}(\text{SO}_4)_5$                                                                                                                             | A  | 2016-002  | Russia                           | <i>European Journal of Mineralogy</i> <b>30</b> (2018), 593                                               |                                                                                             |
| Cesiokenoppyrochlore | $\square\text{Nb}_2(\text{O},\text{OH})_6\text{Cs}_{1-x}$                                                                                                           | A  | 2016-104  | Madagascar                       | <i>Canadian Mineralogist</i> <b>59</b> (2021), 149                                                        |                                                                                             |
| Cesplumtantite       | $\text{Cs}_2\text{Pb}_3\text{Ta}_8\text{O}_{24}$                                                                                                                    | A  | 1985-040  | Democratic Republic of the Congo | <i>Mineralogicheskij Zhurnal</i> <b>8(5)</b> (1986), 92                                                   |                                                                                             |
| Cetineite            | $\text{NaK}_5\text{Sb}_{14}\text{S}_6\text{O}_{18}(\text{H}_2\text{O})_6$                                                                                           | A  | 1986-019  | Italy                            | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1987), 419                                             | <i>American Mineralogist</i> <b>73</b> (1988), 398                                          |
| Chabazite-Ca         | $\text{Ca}_2[\text{Al}_4\text{Si}_8\text{O}_{24}] \cdot 13\text{H}_2\text{O}$                                                                                       | A  | 1997 s.p. | Italy                            | <i>Journal d'Histoire Naturelle</i> <b>2</b> (1792), 181                                                  | <i>European Journal of Mineralogy</i> <b>18</b> (2006), 351                                 |
| Chabazite-K          | $(\text{K}_2\text{NaCa}_{0.5})[\text{Al}_4\text{Si}_8\text{O}_{24}] \cdot 11\text{H}_2\text{O}$                                                                     | A  | 1997 s.p. | Italy                            | <i>Rendiconti dell'Accademia Nazionale dei Lincei</i> <b>40</b> (1976), 490                               | <i>Crystallography Reports</i> <b>50</b> (2005), 544                                        |
| Chabazite-Mg         | $(\text{Mg}_{0.7}\text{K}_{0.5}\text{Ca}_{0.5}\text{Na}_{0.1})[\text{Al}_3\text{Si}_9\text{O}_{24}] \cdot 10\text{H}_2\text{O}$                                     | A  | 2009-060  | Hungary                          | <i>American Mineralogist</i> <b>95</b> (2010), 939                                                        | <i>Atti della Società Toscana di Scienze Naturali, Mem., Ser. A</i> (2020), <b>127</b> , 61 |
| Chabazite-Na         | $(\text{Na}_3\text{K})[\text{Al}_4\text{Si}_8\text{O}_{24}] \cdot 11\text{H}_2\text{O}$                                                                             | A  | 1997 s.p. | Italy                            | <i>American Mineralogist</i> <b>55</b> (1970), 1278                                                       | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1983), 461                               |
| Chabazite-Sr         | $(\text{Sr},\text{Ca})_2[\text{Al}_4\text{Si}_8\text{O}_{24}] \cdot 11\text{H}_2\text{O}$                                                                           | A  | 1999-040  | Russia                           | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>129(4)</b> (2000), 54                     |                                                                                             |
| Chabournéite         | $\text{Ag}_z\text{Ti}_{8-x-z}\text{Pb}_{4+2x}\text{Sb}_{40-x-y}\text{As}_y\text{S}_{68}$<br>$0.00 \leq x \leq 0.40, 16.15 \leq y \leq 19.11, 0.04 \leq z \leq 0.11$ | Rd | 2021 s.p. | France                           | <i>Bulletin de Minéralogie</i> <b>104</b> (1981), 10                                                      | <i>Acta Crystallographica</i> <b>B71</b> (2015), 81                                         |
| Chadwickite          | $(\text{UO}_2)(\text{HAsO}_3)$                                                                                                                                      | A  | 1997-005  | Germany                          | <i>Aufschluss</i> <b>49</b> (1998), 253                                                                   |                                                                                             |
| Chaidamuite          | $\text{ZnFe}^{3+}(\text{SO}_4)_2(\text{OH})(\text{H}_2\text{O})_4$                                                                                                  | A  | 1985-011  | China                            | <i>Acta Mineralogica Sinica</i> <b>6</b> (1986), 109                                                      | <i>Science in China, Ser. B</i> <b>33</b> (1990), 623                                       |
| Chalcanthite         | $\text{Cu}(\text{SO}_4)(\text{H}_2\text{O})_4 \cdot \text{H}_2\text{O}$                                                                                             | G  | 1853      | unknown                          | Die Mineral-Namen und die Mineralogische Nomenklatur. Gotta'schen Buchhandlung, München (1853), 80        | <i>Acta Crystallographica</i> <b>B41</b> (1985), 184                                        |
| Chalcoalumite        | $\text{CuAl}_4(\text{SO}_4)(\text{OH})_{12}(\text{H}_2\text{O})_3$                                                                                                  | G  | 1925      | USA                              | <i>American Mineralogist</i> <b>10</b> (1925), 79                                                         | <i>Mineralogical Magazine</i> <b>77</b> (2013), 2901                                        |
| Chalcocite           | $\text{Cu}_2\text{S}$                                                                                                                                               | G  | 1751      | unknown                          | A History of the Materia Medica. Longman, Hitch and Hawes, London (1751), 140                             | <i>European Journal of Mineralogy</i> <b>14</b> (2002), 591                                 |
| Chalcocyanite        | $\text{Cu}(\text{SO}_4)$                                                                                                                                            | G  | 1873      | Italy                            | <i>Rendiconti della Reale Accademia delle Scienze Fisiche e Matematiche di Napoli</i> <b>5</b> (1873), 26 | <i>Physics and Chemistry of Minerals</i> <b>50</b> (2023), 11                               |
| Chalcomenite         | $\text{Cu}(\text{Se}^{4+}\text{O}_3)(\text{H}_2\text{O})_2$                                                                                                         | G  | 1881      | Argentina                        | <i>Bulletin de la Société Française de Minéralogie</i> <b>4</b> (1881), 51                                | <i>Crystals</i> <b>9</b> (2019), 643                                                        |
| Chalconatronite      | $\text{Na}_2\text{Cu}(\text{CO}_3)_2(\text{H}_2\text{O})_3$                                                                                                         | G  | 1955      | Egypt                            | <i>Science</i> <b>122</b> (1955), 75                                                                      | <i>Zeitschrift für Kristallographie</i> <b>148</b> (1978), 165                              |
| Chalcophanite        | $\text{ZnMn}^{4+}_3\text{O}_7(\text{H}_2\text{O})_3$                                                                                                                | G  | 1875      | USA                              | <i>The American Chemist</i> <b>6</b> (1875), 1                                                            | <i>American Mineralogist</i> <b>99</b> (2014), 1956                                         |
| Chalcophyllite       | $\text{Cu}_{18}\text{Al}_2(\text{AsO}_4)_4(\text{SO}_4)_3(\text{OH})_{24} \cdot 36\text{H}_2\text{O}$                                                               | G  | 1841      | United Kingdom                   | Vollständiges Handbuch der Mineralogie, Vol. 2. Arnoldische, Dresden und Leipzig (1841), 149              | <i>Zeitschrift für Kristallographie</i> <b>151</b> (1980), 129                              |
| Chalcopyrite         | $\text{CuFeS}_2$                                                                                                                                                    | G  | 1725 ?    | unknown                          | Pyritologia, oder Kiess-Historie. Gross, Leipzig (1725), 114                                              | <i>Canadian Mineralogist</i> <b>49</b> (2011), 1015                                         |

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| Chalcosiderite     | $\text{CuFe}^{3+}_6(\text{PO}_4)_4(\text{OH})_8(\text{H}_2\text{O})_4$                                                                                                       | G   | 1814      | United Kingdom               | Systematisch-Tabellarische Uebersicht der Mineralogisch-Einfachen Fossilien. Kriegerschen Buchhandlung, Cassel und Marburg (1814), 323 | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1989), 227             |
| Chalcostibite      | $\text{CuSbS}_2$                                                                                                                                                             | G   | 1847      | Germany                      | Generum et Specierum Mineralium, Secundum Ordines Naturales Digestorum Synopsis. Anton, Halle (1847), 32                               | <i>European Journal of Mineralogy</i> <b>30</b> (2018), 491               |
| Chalcothallite     | $(\text{Cu}, \text{Fe}, \text{Ag})_{6.3}(\text{Ti}, \text{K})_2\text{SbS}_4$                                                                                                 | A   | 1966-008  | Denmark (Greenland)          | <i>Meddelelser om Grønland</i> <b>181</b> (1967), 13                                                                                   | <i>Neues Jahrbuch für Mineralogie Abhandlungen</i> <b>138</b> (1980), 122 |
| Challacolloite     | $\text{KPb}_2\text{Cl}_5$                                                                                                                                                    | A   | 2004-028  | Chile                        | <i>Neues Jahrbuch für Mineralogie Abhandlungen</i> <b>182</b> (2005), 95                                                               | <i>Mineralogy and Petrology</i> <b>96</b> (2009), 121                     |
| Chambersite        | $\text{Mn}_3\text{B}_7\text{O}_{13}\text{Cl}$                                                                                                                                | A   | 1967 s.p. | USA                          | <i>American Mineralogist</i> <b>47</b> (1962), 665                                                                                     | <i>Zeitschrift für Kristallographie</i> <b>211</b> (1996), 924            |
| Chaméanite         | $(\text{Cu}, \text{Fe})_4\text{As}(\text{Se}, \text{S})_4$                                                                                                                   | A   | 1980-088  | France                       | <i>Tschermaks Mineralogische und Petrographische Mitteilungen</i> <b>29</b> (1982), 151                                                |                                                                           |
| Chamosite          | $(\text{Fe}^{2+}, \text{Mg}, \text{Al}, \text{Fe}^{3+})_6(\text{Si}, \text{Al})_4\text{O}_{10}(\text{OH}, \text{O})_8$                                                       | G   | 1820      | Switzerland                  | <i>Annales des Mines</i> <b>5</b> (1820), 393                                                                                          | <i>Clays and Clay Minerals</i> <b>40</b> (1992), 319                      |
| Chanabayaite       | $\text{Cu}_2\text{Cl}(\text{N}_3\text{C}_2\text{H}_2)_2(\text{NH}_3, \text{Cl}, \text{H}_2\text{O}, \square)_4$                                                              | A   | 2013-065  | Chile                        | <i>Zapiski Rossiyskogo Mineralogicheskogo Obshchestva</i> <b>144(2)</b> (2015), 36                                                     |                                                                           |
| Changbaiite        | $\text{PbNb}_2\text{O}_6$                                                                                                                                                    | A ? | ?         | China                        | <i>Acta Geologica Sinica</i> <b>52</b> (1978), 53                                                                                      |                                                                           |
| Changchengite      | $\text{IrBiS}$                                                                                                                                                               | A   | 1995-047  | China                        | <i>Acta Geologica Sinica</i> <b>71</b> (1997), 336                                                                                     |                                                                           |
| Changesite-(Ce)    | $(\text{Ca}_8\text{Ce})\square\text{Fe}(\text{PO}_4)_7$                                                                                                                      | A   | 2025-098  | The Moon / China (meteorite) | CNMNC Newsletter 90 - <i>Mineralogical Magazine</i> <b>90</b> (2026), xxx; <i>European Journal of Mineralogy</i> <b>38</b> (2026), 231 |                                                                           |
| Changesite-(Y)     | $(\text{Ca}_8\text{Y})\square\text{Fe}^{2+}(\text{PO}_4)_7$                                                                                                                  | A   | 2022-023a | The Moon                     | <i>Matter and Radiation at Extremes</i> <b>9</b> (2024), 027401                                                                        |                                                                           |
| Changoite          | $\text{Na}_2\text{Zn}(\text{SO}_4)_2(\text{H}_2\text{O})_4$                                                                                                                  | A   | 1997-041  | Chile                        | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1999), 97                                                                           | <i>Acta Crystallographica</i> <b>E64</b> (2008), i30                      |
| Chantalite         | $\text{CaAl}_2(\text{SiO}_4)(\text{OH})_4$                                                                                                                                   | A   | 1977-001  | Turkey                       | <i>Schweizerische Mineralogische und Petrographische Mitteilungen</i> <b>57</b> (1977), 149                                            | <i>Zeitschrift für Kristallographie</i> <b>150</b> (1979), 53             |
| Chaoite            | C                                                                                                                                                                            | A   | 1968-019  | Germany                      | <i>Science</i> <b>161</b> (1968), 363                                                                                                  | <i>Science</i> <b>216</b> (1982), 984                                     |
| Chapmanite         | $\text{Fe}^{3+}_2\text{Sb}^{3+}(\text{Si}_2\text{O}_5)_3(\text{OH})$                                                                                                         | A   | 1968 s.p. | Canada                       | <i>University of Toronto Studies, Geological Series</i> <b>17</b> (1924), 5                                                            | <i>European Journal of Mineralogy</i> <b>33</b> (2021), 357               |
| Charleshatchettite | $\text{CaNb}_4\text{O}_{10}(\text{OH})_2(\text{H}_2\text{O})_8$                                                                                                              | A   | 2015-048  | Canada                       | <i>American Mineralogist</i> <b>102</b> (2017), 2333                                                                                   |                                                                           |
| Charlesite         | $\text{Ca}_6\text{Al}_2(\text{SO}_4)_2\text{B}(\text{OH})_4(\text{OH}, \text{O})_{12} \cdot 26\text{H}_2\text{O}$                                                            | A   | 1981-043  | USA                          | <i>American Mineralogist</i> <b>68</b> (1983), 1033                                                                                    |                                                                           |
| Charmarite         | $\text{Mn}_4\text{Al}_2(\text{OH})_{12}(\text{CO}_3) \cdot 3\text{H}_2\text{O}$                                                                                              | A   | 1992-026  | Canada                       | <i>Canadian Mineralogist</i> <b>35</b> (1997), 1541                                                                                    | <i>Mineralogical Magazine</i> <b>88</b> (2024), 244                       |
| Charoite           | $(\text{K}, \text{Sr}, \text{Ba}, \text{Mn})_{15-16}(\text{Ca}, \text{Na})_{32}[\text{Si}_{70}(\text{O}, \text{OH})_{180}](\text{OH}, \text{F})_4 \cdot n\text{H}_2\text{O}$ | A   | 1977-019  | Russia                       | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>107</b> (1978), 94                                                       | <i>Physics and Chemistry of Minerals</i> <b>51</b> (2024), 18             |
| Chatkalite         | $\text{Cu}_6\text{FeSn}_2\text{S}_8$                                                                                                                                         | A   | 1981-004  | Uzbekistan                   | <i>Mineralogicheskij Zhurnal</i> <b>3</b> (1981), 79                                                                                   |                                                                           |
| Chayesite          | $\text{KMg}_4\text{Fe}^{3+}[\text{Si}_{12}\text{O}_{30}]$                                                                                                                    | A   | 1987-059  | USA                          | <i>American Mineralogist</i> <b>74</b> (1989), 1368                                                                                    | <i>Mineralogical Magazine</i> <b>58</b> (1994), 655                       |
| Chegemite          | $\text{Ca}_7(\text{SiO}_4)_3(\text{OH})_2$                                                                                                                                   | A   | 2008-038  | Russia                       | <i>European Journal of Mineralogy</i> <b>21</b> (2009), 1045                                                                           |                                                                           |
| Chekhovichite      | $\text{Bi}^{3+}_2\text{Te}^{4+}_4\text{O}_{11}$                                                                                                                              | A   | 1986-039  | Armenia / Kazakhstan         | <i>Moscow University Geology Bulletin</i> <b>42(6)</b> (1987), 71                                                                      | <i>Australian Journal of Chemistry</i> <b>45</b> (1992), 1415             |

|                |                                                                                                                             |     |           |                     |                                                                                                                                        |                                                                |
|----------------|-----------------------------------------------------------------------------------------------------------------------------|-----|-----------|---------------------|----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|
| Chelkarite     | $\text{CaMgB}_2\text{O}_4\text{Cl}_2 \cdot 7\text{H}_2\text{O}$ (?)                                                         | A ? | 1968      | Kazakhstan          | Geology and Exploration of Solid Mineral Deposits of Kazakhstan (1969), 169                                                            |                                                                |
| Chenevixite    | $\text{CuFe}^{3+}(\text{AsO}_4)(\text{OH})_2$                                                                               | G   | 1866      | United Kingdom      | <i>Comptes Rendus Hebdomadaires des Séances de l'Académie des Sciences</i> <b>62</b> (1866), 690                                       | <i>Mineralogical Magazine</i> <b>64</b> (2000), 25             |
| Chengdeite     | $\text{Ir}_3\text{Fe}$                                                                                                      | A   | 1994-023  | China               | <i>Acta Geologica Sinica</i> <b>69</b> (1995), 215                                                                                     |                                                                |
| Chenguodaite   | $\text{Ag}_9\text{FeTe}_2\text{S}_4$                                                                                        | A   | 2004-042a | China               | <i>Chinese Science Bulletin</i> <b>53</b> (2008), 3567                                                                                 | <i>European Journal of Mineralogy</i> <b>15</b> (2003), 147    |
| Chenite        | $\text{CuPb}_4(\text{SO}_4)_2(\text{OH})_6$                                                                                 | A   | 1983-069  | United Kingdom      | <i>Mineralogical Magazine</i> <b>50</b> (1986), 129                                                                                    | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1988), 259  |
| Chenmingite    | $\text{FeCr}_2\text{O}_4$                                                                                                   | A   | 2017-036  | Morocco (meteorite) | <i>American Mineralogist</i> <b>104</b> (2019), 1521                                                                                   |                                                                |
| Chenowethite   | $\text{Mg}(\text{H}_2\text{O})_6[(\text{UO}_2)_2(\text{SO}_4)_2(\text{OH})_2] \cdot 5\text{H}_2\text{O}$                    | A   | 2022-063  | USA                 | <i>Minerals</i> <b>12</b> (2022), 1594                                                                                                 |                                                                |
| Chenzhangruite | $\text{MnFe}^{2+}\text{Te}^{4+}_4\text{O}_{10}$                                                                             | A   | 2024-094  | Mexico              | CNMNC Newsletter 85 - <i>Mineralogical Magazine</i> <b>89</b> (2025), 454; <i>European Journal of Mineralogy</i> <b>37</b> (2025), 337 |                                                                |
| Cheralite      | $(\text{Ca}_{0.5}\text{Th}_{0.5})(\text{PO}_4)$                                                                             | Rd  | 2005 s.p. | India               | <i>Mineralogical Magazine</i> <b>30</b> (1953), 93                                                                                     | <i>Physics and Chemistry of Minerals</i> <b>39</b> (2012), 685 |
| Cheremnykhite  | $\text{Pb}_3\text{Zn}_3(\text{TeO}_6)(\text{VO}_4)_2$                                                                       | A   | 1989-017  | Russia              | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>119(5)</b> (1990), 50                                                  |                                                                |
| Cherepanovite  | $\text{RhAs}$                                                                                                               | A   | 1984-041  | Russia              | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>114</b> (1985), 464                                                      |                                                                |
| Chernikovite   | $(\text{H}_3\text{O})(\text{UO}_2)(\text{PO}_4)(\text{H}_2\text{O})_3$                                                      | A   | 1988 s.p. | Tajikistan          | <i>Mineralogical Record</i> <b>19</b> (1988), 249                                                                                      | <i>Acta Crystallographica</i> <b>B34</b> (1978), 3732          |
| Chernovite-(Y) | $\text{Y}(\text{AsO}_4)$                                                                                                    | Rn  | 1987 s.p. | Russia              | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>96</b> (1967), 699                                                       | <i>Mineralogical Magazine</i> <b>88</b> (2024), 682            |
| Chernykhite    | $\text{BaV}_2(\text{Si}_2\text{Al}_2)\text{O}_{10}(\text{OH})_2$                                                            | A   | 1972-006  | Kazakhstan          | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>101</b> (1972), 451                                                      |                                                                |
| Cherokeeite    | $[\text{Pb}_2\text{Zn}(\text{OH})_4](\text{SO}_4)(\text{H}_2\text{O})$                                                      | A   | 2022-016  | USA                 | <i>Canadian Journal of Mineralogy and Petrology</i> <b>61</b> (2023), 635                                                              |                                                                |
| Chervetite     | $\text{Pb}_2\text{V}^{5+}_2\text{O}_7$                                                                                      | A   | 1967 s.p. | Gabon               | <i>Bulletin de la Société Française de Minéralogie et de Cristallographie</i> <b>86</b> (1963), 117                                    | <i>Canadian Journal of Chemistry</i> <b>51</b> (1973), 70      |
| Chesnokovite   | $\text{Na}_2[\text{SiO}_2(\text{OH})_2](\text{H}_2\text{O})_8$                                                              | A   | 2006-007  | Russia              | <i>Zapiski Rossiyskogo Mineralogicheskogo Obshchestva</i> <b>136(2)</b> (2007), 25                                                     |                                                                |
| Chessexite     | $\text{Na}_4\text{Ca}_2\text{Mg}_3\text{Al}_8(\text{SiO}_4)_2(\text{SO}_4)_{10}(\text{OH})_{10} \cdot 40\text{H}_2\text{O}$ | A   | 1981-054  | France              | <i>Schweizerische Mineralogische und Petrographische Mitteilungen</i> <b>62</b> (1982), 337                                            |                                                                |
| Chesterite     | $\text{Mg}_{17}\text{Si}_{20}\text{O}_{54}(\text{OH})_6$                                                                    | A   | 1977-010  | USA                 | <i>American Mineralogist</i> <b>63</b> (1978), 1000                                                                                    | <i>American Mineralogist</i> <b>63</b> (1978), 1053            |
| Chestermanite  | $\text{Mg}_2(\text{Fe}^{3+}, \text{Mg}, \text{Al}, \text{Sb}^{5+})\text{O}_2(\text{BO}_3)$                                  | A   | 1986-058  | USA                 | <i>Canadian Mineralogist</i> <b>26</b> (1988), 911                                                                                     | <i>Acta Chemica Scandinavica</i> <b>45</b> (1991), 797         |

|                  |                                                                                                                                                                |    |           |                                         |                                                                                                                                        |                                                                 |
|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----------|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|
| Chevkinite-(Ce)  | $\text{Ce}_4(\text{Ti}, \text{Fe}^{2+}, \text{Fe}^{3+})_5(\text{Si}_2\text{O}_7)_2\text{O}_8$                                                                  | Rn | 1987 s.p. | Russia                                  | Mineralogisch-Geognostische Reise nach dem Ural, dem Altai und dem Kaspischen Meere. Sanderschen, Berlin (1842), 513                   | <i>American Mineralogist</i> <b>109</b> (2024), 896             |
| Chiappinoite-(Y) | $\text{Y}_2\text{Mn}(\text{Si}_3\text{O}_7)_4$                                                                                                                 | A  | 2014-040  | Portugal                                | <i>European Journal of Mineralogy</i> <b>27</b> (2015), 91                                                                             |                                                                 |
| Chiavennite      | $\text{CaMn}^{2+}(\text{BeOH})_2\text{Si}_5\text{O}_{13}(\text{H}_2\text{O})_2$                                                                                | A  | 1981-038  | Italy                                   | <i>American Mineralogist</i> <b>68</b> (1983), 623                                                                                     | <i>Canadian Mineralogist</i> <b>54</b> (2016), 21               |
| Chibaite         | $\text{SiO}_2 \cdot n(\text{CH}_4, \text{C}_2\text{H}_6, \text{C}_3\text{H}_8, \text{C}_4\text{H}_{10})$ ( $n_{\text{max}} = 3/17$ )                           | A  | 2008-067  | Japan                                   | <i>Nature Communications</i> <b>2</b> (2011), 196                                                                                      | <i>IUCrJ</i> <b>5</b> (2018), 595                               |
| Chihmingite      | $\text{NiAl}_2\text{O}_4$                                                                                                                                      | A  | 2022-010  | Norway                                  | CNMNC Newsletter 67 - <i>Mineralogical Magazine</i> <b>86</b> (2022), 849; <i>European Journal of Mineralogy</i> <b>34</b> (2022), 359 |                                                                 |
| Chihuahuaite     | $\text{Fe}^{2+}[\text{Al}_{12}\text{O}_{19}]$                                                                                                                  | Rn | 2020 s.p. | Mexico (meteorite)                      | <i>American Mineralogist</i> <b>95</b> (2010), 188                                                                                     |                                                                 |
| Childrenite      | $\text{Fe}^{2+}\text{Al}(\text{PO}_4)(\text{OH})_2(\text{H}_2\text{O})$                                                                                        | G  | 1823      | United Kingdom                          | <i>Quarterly Journal of Science, Literature, and the Arts</i> <b>16</b> (1823), 274                                                    | <i>European Journal of Mineralogy</i> <b>36</b> (2024), 1       |
| Chiluite         | $\text{Bi}_3\text{Te}^{6+}\text{Mo}^{6+}\text{O}_{10.5}$                                                                                                       | A  | 1988-001  | China                                   | <i>Acta Mineralogica Sinica</i> <b>9</b> (1989), 9                                                                                     |                                                                 |
| Chinchorroite    | $\text{Na}_2\text{Mg}_5(\text{As}_2\text{O}_7)_2(\text{AsO}_3\text{OH})_2(\text{H}_2\text{O})_{10}$                                                            | A  | 2017-106  | Chile                                   | <i>Mineralogical Magazine</i> <b>83</b> (2019), 655                                                                                    |                                                                 |
| Chinleite-(Ce)   | $\text{NaCe}(\text{SO}_4)_2(\text{H}_2\text{O})$                                                                                                               | A  | 2024-009  | USA                                     | <i>Canadian Journal of Mineralogy and Petrology</i> <b>63</b> (2025), 199                                                              |                                                                 |
| Chinleite-(Nd)   | $\text{NaNd}(\text{SO}_4)_2(\text{H}_2\text{O})$                                                                                                               | A  | 2022-051  | USA                                     | <i>Canadian Journal of Mineralogy and Petrology</i> <b>61</b> (2023), 411                                                              |                                                                 |
| Chinleite-(Y)    | $\text{NaY}(\text{SO}_4)_2(\text{H}_2\text{O})$                                                                                                                | A  | 2016-017  | USA                                     | <i>Mineralogical Magazine</i> <b>81</b> (2017), 909                                                                                    |                                                                 |
| Chinnerite       | $[\text{Mg}(\text{H}_2\text{O})_6]\text{Na}(\text{H}_2\text{O})_2\text{Al}_3(\text{PO}_4)_2\text{F}_6$                                                         | A  | 2023-083  | Australia                               | <i>Australian Journal of Mineralogy</i> <b>25</b> (2024), 5                                                                            |                                                                 |
| Chiolite         | $\text{Na}_5\text{Al}_3\text{F}_{14}$                                                                                                                          | G  | 1846      | Russia                                  | <i>Journal für Praktische Chemie</i> <b>37</b> (1846), 175                                                                             | <i>Journal of Solid State Chemistry</i> <b>36</b> (1981), 297   |
| Chirvinskyite    | $(\text{Na}, \text{Ca})_{13}(\text{Fe}, \text{Mn}, \square)_2\text{Ti}_2(\text{Zr}, \text{Ti})_3(\text{Si}_2\text{O}_7)_4(\text{OH}, \text{O}, \text{F})_{12}$ | A  | 2016-051  | Russia                                  | <i>Minerals</i> <b>9</b> (2019), 219                                                                                                   |                                                                 |
| Chistyakovaite   | $\text{Al}(\text{UO}_2)_2(\text{AsO}_4)_2\text{F} \cdot 6.5\text{H}_2\text{O}$                                                                                 | A  | 2005-003  | Kazakhstan                              | <i>Transactions (Doklady) of the Russian Academy of Sciences, Earth Science Section</i> <b>407</b> (2006), 290                         |                                                                 |
| Chivruaiite      | $\text{Ca}_4(\text{Ti}, \text{Nb})_5(\text{Si}_6\text{O}_{17})_2(\text{OH}, \text{O})_5 \cdot 13\text{-}14\text{H}_2\text{O}$                                  | A  | 2004-052  | Russia                                  | <i>American Mineralogist</i> <b>91</b> (2006), 922                                                                                     |                                                                 |
| Chiyokoite       | $\text{Ca}_3\text{Si}(\text{CO}_3)[\text{B}(\text{OH})_4]\text{O}(\text{OH})_5(\text{H}_2\text{O})_{12}$                                                       | A  | 2019-054  | Japan                                   | <i>Canadian Mineralogist</i> <b>58</b> (2020), 653                                                                                     |                                                                 |
| Chkalovite       | $\text{Na}_2\text{BeSi}_2\text{O}_6$                                                                                                                           | G  | 1938      | Russia                                  | <i>Doklady Akademii Nauk SSSR</i> <b>22</b> (1939), 259                                                                                | <i>Mineralogical Magazine</i> <b>53</b> (1989), 117             |
| Chladniite       | $\text{Na}_3\text{CaMg}_{11}(\text{PO}_4)_9$                                                                                                                   | Rd | 1993-010  | USA                                     | <i>American Mineralogist</i> <b>79</b> (1994), 375                                                                                     | <i>American Mineralogist</i> <b>109</b> (2024), 1513            |
| Chloraluminite   | $\text{AlCl}_3(\text{H}_2\text{O})_6$                                                                                                                          | G  | 1873      | Italy                                   | <i>Rendiconti della Reale Accademia delle Scienze Fisiche e Matematiche di Napoli, Ser. I</i> <b>6</b> (1873), 1                       | <i>Acta Crystallographica</i> <b>B27</b> (1971), 1069           |
| Chlorapatite     | $\text{Ca}_5(\text{PO}_4)_3\text{Cl}$                                                                                                                          | Rn | 2010 s.p. | Austria / Germany / Spain / Switzerland | <i>Annalen der Physik und Chemie</i> <b>85</b> (1827), 185                                                                             | <i>Geologica Carpathica</i> <b>69</b> (2018), 439               |
| Chlorargyrite    | $\text{AgCl}$                                                                                                                                                  | A  | 1962 s.p. | Germany                                 | Synopsis Mineralogica. Engelhart, Freiberg (1875)                                                                                      | <i>Physical Review B</i> <b>59</b> (1999), 750                  |
| Chlorartinite    | $\text{Mg}_2(\text{CO}_3)\text{Cl}(\text{OH})(\text{H}_2\text{O}) \cdot \text{H}_2\text{O}$                                                                    | A  | 1996-005  | Russia                                  | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>127(2)</b> (1998), 55                                                  | <i>Journal of Applied Crystallography</i> <b>39</b> (2006), 739 |
| Chlorbartonite   | $\text{K}_6\text{Fe}_{24}\text{S}_{26}\text{Cl}$                                                                                                               | A  | 2000-048  | Russia                                  | <i>Canadian Mineralogist</i> <b>41</b> (2003), 503                                                                                     |                                                                 |

|                         |                                                                                                                             |    |           |                |                                                                                                                                        |                                                                                             |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------|----|-----------|----------------|----------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| Chlorellestadite        | $\text{Ca}_5(\text{SiO}_4)_{1.5}(\text{SO}_4)_{1.5}\text{Cl}$                                                               | A  | 2017-013  | Georgia        | <i>Mineralogy and Petrology</i> <b>112</b> (2018), 743                                                                                 |                                                                                             |
| Chloritoid              | $\text{Fe}^{2+}\text{Al}_2\text{O}(\text{SiO}_4)(\text{OH})_2$                                                              | G  | 1835      | Russia         | <i>Journal für Praktische Chemie</i> <b>4</b> (1835), 272                                                                              | <i>American Mineralogist</i> <b>110</b> (2026), 150                                         |
| Chlorkyuygenite         | $\text{Ca}_{12}\text{Al}_{14}\text{O}_{32}[(\text{H}_2\text{O})_4\text{Cl}_2]$                                              | Rn | 2012-046  | Russia         | <i>European Journal of Mineralogy</i> <b>27</b> (2015), 113                                                                            |                                                                                             |
| Chlormagaluminitite     | $\text{Mg}_4\text{Al}_2(\text{OH})_{12}\text{Cl}_2(\text{H}_2\text{O})_2$                                                   | A  | 1980-098  | Russia         | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>111</b> (1982), 121                                                      | <i>Minerals</i> <b>9</b> (2019), 221                                                        |
| Chlormanganokalite      | $\text{K}_4\text{MnCl}_6$                                                                                                   | G  | 1906      | Italy          | <i>Nature</i> <b>74</b> (1906), 103                                                                                                    | <i>Periodico di Mineralogia</i> <b>16</b> (1947), 73                                        |
| Chlormayenite           | $\text{Ca}_{12}\text{Al}_{14}\text{O}_{32}[\square_4\text{Cl}_2]$                                                           | Rd | 1963-016  | Germany        | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1964), 22                                                                           | <i>Acta Crystallographica</i> <b>B67</b> (2011), 193                                        |
| Chlorocalcite           | $\text{KCaCl}_3$                                                                                                            | G  | 1872      | Italy          | <i>Società reale di Napoli, Rendiconto dell'Accademia delle Scienze Fisiche e Matematiche</i> <b>11</b> (1872), 210                    | <i>Atti della Società Toscana di Scienze Naturali</i> <b>54</b> (1947), 5                   |
| Chloromagnesite         | $\text{MgCl}_2$                                                                                                             | Q  | 1873      | Italy          | <i>Rendiconti della Reale Accademia delle Scienze Fisiche e Matematiche di Napoli, Ser. I</i> <b>6</b> (1873), 1                       | <i>Journal of Solid State Chemistry</i> <b>95</b> (1991), 176                               |
| Chloromenite            | $\text{Cu}_9\text{O}_2(\text{Se}^{4+}\text{O}_3)_4\text{Cl}_6$                                                              | A  | 1996-048  | Russia         | <i>European Journal of Mineralogy</i> <b>11</b> (1999), 119                                                                            | <i>Journal of Alloys and Compounds</i> <b>894</b> (2022), 162291                            |
| Chlorophoenicite        | $\text{Mn}_3\text{Zn}_2(\text{OH})_6\text{As}[\text{O}_3(\text{OH})_3]$                                                     | G  | 1924      | USA            | <i>Journal of the Washington Academy of Sciences</i> <b>14</b> (1924), 362                                                             | <i>American Mineralogist</i> <b>53</b> (1968), 1110                                         |
| Chlorothionite          | $\text{K}_2\text{Cu}(\text{SO}_4)\text{Cl}_2$                                                                               | G  | 1872      | Italy          | <i>Rendiconti della Reale Accademia delle Scienze Fisiche e Matematiche di Napoli, Ser. I</i> <b>5</b> (1872), 210                     | <i>Zeitschrift für Kristallographie</i> <b>144</b> (1976), 226                              |
| Chloroxiphite           | $\text{Pb}_3\text{CuO}_2\text{Cl}_2(\text{OH})_2$                                                                           | G  | 1923      | United Kingdom | <i>Mineralogical Magazine</i> <b>20</b> (1923), 67                                                                                     | <i>Mineralogical Magazine</i> <b>72</b> (2008), 793                                         |
| Choloalite              | $(\text{Pb},\text{Ca})_3(\text{Cu},\text{Sb})_3\text{Te}_6\text{O}_{18}\text{Cl}$                                           | A  | 1980-019  | Mexico         | <i>Mineralogical Magazine</i> <b>44</b> (1981), 55                                                                                     | <i>Canadian Mineralogist</i> <b>37</b> (1999), 721                                          |
| Chondrodite             | $\text{Mg}_5(\text{SiO}_4)_2\text{F}_2$                                                                                     | G  | 1817      | Finland        | <i>Svenska Vetenskaps-Akademiens Handlingar</i> (1817), 206                                                                            | <i>Mineralogical Magazine</i> <b>66</b> (2002), 441                                         |
| Chongite                | $\text{Ca}_3\text{Mg}_2(\text{AsO}_3\text{OH})_2(\text{AsO}_4)_2(\text{H}_2\text{O})_4$                                     | A  | 2015-039  | Chile          | <i>Mineralogical Magazine</i> <b>80</b> (2016), 1255                                                                                   | <i>Journal of Geosciences</i> <b>65</b> (2020), 111                                         |
| Chopinite               | $\text{Mg}_3(\text{PO}_4)_2$                                                                                                | A  | 2006-004  | Antarctica     | <i>European Journal of Mineralogy</i> <b>19</b> (2007), 229                                                                            | <i>American Mineralogist</i> <b>95</b> (2010), 260                                          |
| Chorażewiczite          | $\text{Pb}_2\text{Fe}^{3+}(\text{Te}^{6+}\text{O}_6)(\text{HCO}_3)$                                                         | A  | 2025-066  | USA            | CNMNC Newsletter 88 - <i>Mineralogical Magazine</i> <b>90</b> (2026), 192; <i>European Journal of Mineralogy</i> <b>37</b> (2025), 921 | <a href="https://doi.org/10.1180/mgm.2026.10224">https://doi.org/10.1180/mgm.2026.10224</a> |
| Chovanite               | $\text{Pb}_{15-2x}\text{Sb}_{14+2x}\text{S}_{36}\text{O}_x$ ( $x \sim 0.2$ )                                                | A  | 2009-055  | Slovakia       | <i>European Journal of Mineralogy</i> <b>24</b> (2012), 727                                                                            | <i>Mineralogical Magazine</i> <b>81</b> (2017), 811                                         |
| Chrisstanleyite         | $\text{Ag}_2\text{Pd}_3\text{Se}_4$                                                                                         | A  | 1996-044  | United Kingdom | <i>Mineralogical Magazine</i> <b>62</b> (1998), 257                                                                                    | <i>Canadian Mineralogist</i> <b>44</b> (2006), 497                                          |
| Christelite             | $\text{Zn}_3\text{Cu}_2(\text{SO}_4)_2(\text{OH})_6(\text{H}_2\text{O})_4$                                                  | A  | 1995-030  | Chile          | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1996), 188                                                                          | <i>Zeitschrift für Kristallographie</i> <b>211</b> (1996), 518                              |
| Christite               | $\text{TiHgAsS}_3$                                                                                                          | A  | 1976-015  | USA            | <i>American Mineralogist</i> <b>62</b> (1977), 421                                                                                     | <i>Zeitschrift für Kristallographie</i> <b>144</b> (1976), 367                              |
| Christofschäferite-(Ce) | $(\text{Ce},\text{La},\text{Ca})_4\text{Mn}(\text{Ti},\text{Fe})_3(\text{Fe},\text{Ti})(\text{Si}_2\text{O}_7)_2\text{O}_8$ | A  | 2011-107  | Germany        | <i>New Data on Minerals</i> <b>47</b> (2012), 33                                                                                       | <i>Lithosphere</i> <b>24</b> (2024), 264                                                    |
| Chromatite              | $\text{CaCr}^{6+}\text{O}_4$                                                                                                | A  | 1967 s.p. | Jordan         | <i>Naturwissenschaften</i> <b>50</b> (1963), 612                                                                                       | <i>Zeitschrift für Naturforschung</i> <b>51b</b> (1996), 751                                |
| Chrombismite            | $\text{Bi}_{16}\text{CrO}_{27}$                                                                                             | A  | 1995-044  | China          | <i>Canadian Mineralogist</i> <b>35</b> (1997), 35                                                                                      |                                                                                             |
| Chromceladonite         | $\text{KMgCr}(\text{Si}_4\text{O}_{10})(\text{OH})_2$                                                                       | A  | 1999-024  | Russia         | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>129(1)</b> (2000), 38                                                  |                                                                                             |

|                            |                                                                                                          |    |           |                    |                                                                                                                                        |                                                                                   |
|----------------------------|----------------------------------------------------------------------------------------------------------|----|-----------|--------------------|----------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| Chromferide                | $\text{Fe}_{1.5}\text{Cr}_{0.2}$                                                                         | A  | 1984-021  | Russia             | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>115</b> (1986), 355                                                      |                                                                                   |
| Chromio-pargasite          | $\text{NaCa}_2(\text{Mg}_4\text{Cr})(\text{Si}_6\text{Al}_2)\text{O}_{22}(\text{OH})_2$                  | Rd | 2012 s.p. | Japan              | <i>Journal of Mineralogical and Petrological Sciences</i> <b>107</b> (2012), 1                                                         |                                                                                   |
| Chromite                   | $\text{Fe}^{2+}\text{Cr}_2\text{O}_4$                                                                    | G  | 1845      | France             | Handbuch der bestimmenden Mineralogie. Braumüller and Seidel, Wien (1845), 550                                                         | <i>Mineralogical Magazine</i> <b>79</b> (2015), 755                               |
| Chromium                   | Cr                                                                                                       | A  | 1980-094  | China              | <i>Kexue Tongbao</i> <b>26</b> (1981), 959                                                                                             |                                                                                   |
| Chromium-dravite           | $\text{NaMg}_3\text{Cr}_6(\text{Si}_6\text{O}_{18})(\text{BO}_3)_3(\text{OH})_3(\text{OH})$              | Rd | 1982-055  | Russia             | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>112</b> (1983), 222                                                      | <i>Minerals</i> <b>9</b> (2019), 398                                              |
| Chromo-alumino-povondraite | $\text{NaCr}_3(\text{Al}_4\text{Mg}_2)(\text{Si}_6\text{O}_{18})(\text{BO}_3)_3(\text{OH})_3\text{O}$    | A  | 2013-089  | Russia             | <i>American Mineralogist</i> <b>99</b> (2014), 1767                                                                                    |                                                                                   |
| Chromphyllite              | $\text{KCr}_2(\text{AlSi}_3\text{O}_{10})(\text{OH})_2$                                                  | A  | 1995-052  | Russia             | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>126(2)</b> (1997), 110                                                 | <i>Crystallography Reports</i> <b>42</b> (1997), 571                              |
| Chromschieffelinite        | $\text{Pb}_{10}\text{Te}^{6+}_6\text{O}_{20}(\text{OH})_{14}(\text{CrO}_4)(\text{H}_2\text{O})_5$        | A  | 2011-003  | USA                | <i>American Mineralogist</i> <b>97</b> (2012), 212                                                                                     |                                                                                   |
| Chromviskontite            | $\text{Pb}_5\text{Cu}_2(\text{CrO}_4)_3(\text{SeO}_3)(\text{OH})_6$                                      | A  | 2024-019  | Russia             | CNMNC Newsletter 80 - <i>Mineralogical Magazine</i> <b>88</b> (2024), 627; <i>European Journal of Mineralogy</i> <b>36</b> (2024), 599 |                                                                                   |
| Chrysoberyl                | $\text{BeAl}_2\text{O}_4$                                                                                | G  | 1789      | Brazil             | <i>Bergmannisches Journal</i> <b>1</b> (1789), 369                                                                                     | <i>American Mineralogist</i> <b>100</b> (2015), 861                               |
| Chrysocolla                | $(\text{Cu}_{2-x}\text{Al}_x)\text{H}_{2-x}\text{Si}_2\text{O}_5(\text{OH})_4 \cdot n\text{H}_2\text{O}$ | A  | 1980 s.p. | unknown            | original paper?                                                                                                                        | <i>Comptes Rendus de l'Académie des Sciences de Paris</i> <b>271</b> (1970), 1837 |
| Chrysothallite             | $\text{K}_6\text{Cu}_6\text{Ti}^{3+}\text{Cl}_{17}(\text{OH})_4(\text{H}_2\text{O})$                     | A  | 2013-008  | Russia             | <i>Mineralogical Magazine</i> <b>79</b> (2015), 365                                                                                    |                                                                                   |
| Chrysotile                 | $\text{Mg}_3\text{Si}_2\text{O}_5(\text{OH})_4$                                                          | Rd | 2007 s.p. | Poland             | <i>Gelehrte Anzeigen</i> <b>17</b> (1845), 945                                                                                         | <i>Periodico di Mineralogia</i> <b>85</b> (2016), 249                             |
| Chubarovite                | $\text{KZn}_2(\text{BO}_3)\text{Cl}_2$                                                                   | A  | 2014-018  | Russia             | <i>Canadian Mineralogist</i> <b>53</b> (2015), 273                                                                                     |                                                                                   |
| Chudobaite                 | $\text{Mg}_5(\text{AsO}_4)_2(\text{AsO}_3\text{OH})_2(\text{H}_2\text{O})_8 \cdot 2\text{H}_2\text{O}$   | A  | 1962 s.p. | Namibia            | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1960), 1                                                                            | <i>Naturwissenschaften</i> <b>63</b> (1976), 243                                  |
| Chukanovite                | $\text{Fe}_2(\text{CO}_3)(\text{OH})_2$                                                                  | A  | 2005-039  | Russia (meteorite) | <i>European Journal of Mineralogy</i> <b>19</b> (2007), 891                                                                            | <i>European Journal of Mineralogy</i> <b>26</b> (2014), 221                       |
| Chukhrovite-(Ca)           | $\text{Ca}_3\text{Ca}_{1.5}\text{Al}_2(\text{SO}_4)\text{F}_{13}(\text{H}_2\text{O})_{12}$               | A  | 2010-081  | Italy              | <i>European Journal of Mineralogy</i> <b>24</b> (2012), 1069                                                                           |                                                                                   |
| Chukhrovite-(Ce)           | $\text{Ca}_3\text{CeAl}_2(\text{SO}_4)\text{F}_{13}(\text{H}_2\text{O})_{12}$                            | A  | 2024 s.p. | Italy              | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>102</b> (1973), 200                                                      | <i>Mineralogical Magazine</i> <b>89</b> (2025), 328                               |
| Chukhrovite-(Nd)           | $\text{Ca}_3\text{NdAl}_2(\text{SO}_4)\text{F}_{13}(\text{H}_2\text{O})_{12}$                            | A  | 2004-023  | Kazakhstan         | <i>New Data on Minerals</i> <b>40</b> (2005), 5                                                                                        |                                                                                   |
| Chukhrovite-(Y)            | $\text{Ca}_3\text{YAl}_2(\text{SO}_4)\text{F}_{13}(\text{H}_2\text{O})_{12}$                             | A  | 1987 s.p. | Kazakhstan         | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>89</b> (1960), 15                                                        | <i>Doklady Akademii Nauk SSSR</i> <b>163</b> (1965), 183                          |
| Chukochenite               | $(\text{Li}_{0.5}\text{Al}_{0.5})\text{Al}_2\text{O}_4$                                                  | A  | 2018-132a | China              | <i>American Mineralogist</i> <b>107</b> (2022), 842                                                                                    |                                                                                   |
| Chukotkaite                | $\text{AgPb}_7\text{Sb}_5\text{S}_{15}$                                                                  | A  | 2019-124  | Russia             | <i>Canadian Mineralogist</i> <b>58</b> (2020), 587                                                                                     |                                                                                   |
| Churchite-(Y)              | $\text{Y}(\text{PO}_4)(\text{H}_2\text{O})_2$                                                            | Rn | 1987 s.p. | United Kingdom     | <i>The Chemical News and Journal of Physical Sciences</i> <b>12</b> (1865), 121                                                        | <i>Acta Crystallographica</i> <b>C50</b> (1994), 1651                             |
| Chursinite                 | $\text{Hg}^{1+}\text{Hg}^{2+}(\text{AsO}_4)$                                                             | A  | 1982-047a | Kyrgyzstan         | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>113</b> (1984), 341                                                      | <i>Zeitschrift für Naturforschung</i> <b>59b</b> (2004), 859                      |
| Chvaleticeite              | $\text{Mn}(\text{SO}_4)(\text{H}_2\text{O})_6$                                                           | A  | 1984-059  | Czech Republic     | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1986), 121                                                                          |                                                                                   |

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|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------|----|-----------|---------------------|----------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| Chvilevaite           | $\text{Na}(\text{Cu}, \text{Fe}, \text{Zn})_2\text{S}_2$                                                                                  | A  | 1987-017  | Russia              | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>117</b> (1988), 204                                                      | <i>Doklady Akademii Nauk SSSR</i> <b>310</b> (1990), 90                                             |
| Cianciulliite         | $\text{Mg}_2\text{Mn}^{2+}\text{Zn}_2(\text{OH})_{10} \cdot 2\text{-4H}_2\text{O}$                                                        | A  | 1990-042  | USA                 | <i>American Mineralogist</i> <b>76</b> (1991), 1708                                                                                    | <i>American Mineralogist</i> <b>76</b> (1991), 1711                                                 |
| Cinnabar              | $\text{HgS}$                                                                                                                              | G  | ?         | unknown             | original paper?                                                                                                                        | <i>Bulletin de la Société Française de Minéralogie et de Cristallographie</i> <b>96</b> (1973), 218 |
| Ciprianiite           | $\text{Ca}_4(\text{ThCa})\text{Al}(\text{Be}_{0.5}\square_{1.5})[\text{B}_4\text{Si}_4\text{O}_{22}](\text{OH})_2$                        | Rd | 2001-021  | Italy               | <i>American Mineralogist</i> <b>87</b> (2002), 739                                                                                     | <i>European Journal of Mineralogy</i> <b>31</b> (2019), 799                                         |
| Ciriottiite           | $\text{Cu}_4\text{Pb}_{19}(\text{Sb}, \text{As}, \text{Bi})_{22}(\text{As}_2)\text{S}_{56}$                                               | A  | 2015-027  | Italy               | <i>Minerals</i> <b>6</b> (2016), 8                                                                                                     |                                                                                                     |
| Cirrolite             | $\text{Ca}_3\text{Al}_2(\text{PO}_4)_3(\text{OH})_3$                                                                                      | Q  | 1868      | Sweden              | <i>Öfversigt af Kongliga Vetenskaps-Akademiens Förhandlingar</i> <b>25</b> (1868), 197                                                 |                                                                                                     |
| Clairite              | $(\text{NH}_4)_2\text{Fe}^{3+}_3(\text{SO}_4)_4(\text{OH})_3 \cdot 3\text{H}_2\text{O}$                                                   | A  | 1982-093  | South Africa        | <i>Annals of the Geological Survey of South Africa</i> <b>17</b> (1983), 29                                                            |                                                                                                     |
| Claraite              | $(\text{Cu}, \text{Zn})_{15}(\text{CO}_3)_4(\text{AsO}_4)_2(\text{SO}_4)(\text{OH})_{14}(\text{H}_2\text{O})_4 \cdot 3\text{H}_2\text{O}$ | Rd | 2016 s.p. | Germany             | <i>Chemie der Erde</i> <b>41</b> (1982), 97                                                                                            | <i>European Journal of Mineralogy</i> <b>29</b> (2017), 1031                                        |
| Claringbullite        | $\text{Cu}^{2+}_4\text{FCl}(\text{OH})_6$                                                                                                 | Rd | 1976-029  | Zambia              | <i>Mineralogical Magazine</i> <b>41</b> (1977), 433                                                                                    | <i>Canadian Mineralogist</i> <b>59</b> (2021), 265                                                  |
| Clarkeite             | $\text{Na}(\text{UO}_2)\text{O}(\text{OH}) \cdot n\text{H}_2\text{O}$                                                                     | G  | 1931      | USA                 | <i>American Mineralogist</i> <b>16</b> (1931), 213                                                                                     | <i>American Mineralogist</i> <b>82</b> (1997), 607                                                  |
| Claudetite            | $\text{As}_2\text{O}_3$                                                                                                                   | G  | 1868      | Portugal            | A System of Mineralogy, 5th ed. Wiley, New York (1868), 796                                                                            | <i>CrystEngComm</i> <b>23</b> (2021), 638                                                           |
| Clausthalite          | $\text{PbSe}$                                                                                                                             | G  | 1832      | Germany             | Traité Élémentaire de Minéralogie, 2nd ed. Verdière, Paris (1832), 531                                                                 | <i>Acta Crystallographica</i> <b>C43</b> (1987), 1443                                               |
| Clearcreekite         | $\text{Hg}^{1+}_3(\text{CO}_3)(\text{OH}) \cdot 2\text{H}_2\text{O}$                                                                      | A  | 1999-003  | USA                 | <i>Canadian Mineralogist</i> <b>39</b> (2001), 779                                                                                     |                                                                                                     |
| Clerite               | $\text{MnSb}_2\text{S}_4$                                                                                                                 | A  | 1995-029  | Russia              | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>125(3)</b> (1996), 95                                                  | <i>Zeitschrift für Kristallographie</i> <b>185</b> (1989), 31                                       |
| Cleusonite            | $\text{Pb}(\text{U}^{4+}, \text{U}^{6+})\text{Fe}^{2+}_2(\text{Ti}, \text{Fe}^{2+}, \text{Fe}^{3+})_{18}(\text{O}, \text{OH})_{38}$       | A  | 1998-070  | Switzerland         | <i>European Journal of Mineralogy</i> <b>17</b> (2005), 933                                                                            |                                                                                                     |
| Cliffordite           | $\text{UTe}^{4+}_3\text{O}_9$                                                                                                             | A  | 1966-046  | Mexico              | <i>American Mineralogist</i> <b>54</b> (1969), 697                                                                                     | <i>Tschermaks Mineralogische und Petrographische Mitteilungen</i> <b>29</b> (1981), 1               |
| Clinoatacamite        | $\text{Cu}_2\text{Cl}(\text{OH})_3$                                                                                                       | A  | 1993-060  | Chile               | <i>Canadian Mineralogist</i> <b>34</b> (1996), 61                                                                                      | <i>Physics and Chemistry of Minerals</i> <b>44</b> (2017), 307                                      |
| Clinobehoite          | $\text{Be}(\text{OH})_2$                                                                                                                  | A  | 1988-024  | Russia              | <i>Mineralogicheskij Zhurnal</i> <b>11(5)</b> (1989), 88                                                                               | <i>Doklady Akademii Nauk SSSR</i> <b>305</b> (1989), 95                                             |
| Clinobisvanite        | $\text{Bi}(\text{VO}_4)$                                                                                                                  | A  | 1973-040  | Australia           | <i>Mineralogical Magazine</i> <b>39</b> (1974), 847                                                                                    | <i>Mineralogical Magazine</i> <b>60</b> (1996), 387                                                 |
| Clinocervantite       | $\text{Sb}^{3+}\text{Sb}^{5+}\text{O}_4$                                                                                                  | A  | 1997-017  | Italy               | <i>European Journal of Mineralogy</i> <b>11</b> (1999), 95                                                                             | <i>Journal of Solid State Chemistry</i> <b>178</b> (2005), 2602                                     |
| Clinochalcomenite     | $\text{CuSeO}_3(\text{H}_2\text{O})_2$                                                                                                    | A  | 2025-037  | China / USA         | CNMNC Newsletter 87 - <i>Mineralogical Magazine</i> <b>89</b> (2025), 706; <i>European Journal of Mineralogy</i> <b>37</b> (2025), 695 |                                                                                                     |
| Clinochlore           | $\text{Mg}_5\text{Al}(\text{AlSi}_3\text{O}_{10})(\text{OH})_8$                                                                           | G  | 1851      | USA                 | <i>American Journal of Science and Arts</i> <b>12</b> (1851), 339                                                                      | <i>European Journal of Mineralogy</i> <b>21</b> (2009), 581                                         |
| Clinoclase            | $\text{Cu}_3(\text{AsO}_4)(\text{OH})_3$                                                                                                  | G  | 1830      | United Kingdom      | Übersicht des Mineral-Systems. Engelhardt, Freiberg (1830)                                                                             | <i>Acta Crystallographica</i> <b>C46</b> (1990), 2291                                               |
| Clinoenstatite        | $\text{Mg}_2\text{Si}_2\text{O}_6$                                                                                                        | A  | 1988 s.p. | Romania (meteorite) | Die Enstatitaugite (PhD dissertation). Univ. of Helsinki (1906), 151 p.                                                                | <i>Acta Crystallographica</i> <b>B69</b> (2013), 541                                                |
| Clinofergusonite-(Ce) | $\text{CeNbO}_4$                                                                                                                          | Rn | 1987 s.p. | China               | <i>Geochimica</i> <b>2</b> (1973), 86                                                                                                  | <i>Journal of Solid State Chemistry</i> <b>204</b> (2013), 291                                      |

|                                |                                                                                                                                      |    |           |                |                                                                                                           |                                                                                                     |
|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|----|-----------|----------------|-----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| Clinofergusonite-(Nd)          | NdNbO <sub>4</sub>                                                                                                                   | Rn | 1987 s.p. | China          | <i>Scientia Geologica Sinica</i> <b>1</b> (1983), 78                                                      |                                                                                                     |
| Clinofergusonite-(Y)           | YNbO <sub>4</sub>                                                                                                                    | Rn | 1987 s.p. | Tajikistan     | <i>Geologiya Rudnykh Mestorozhdenii</i> <b>9</b> (1961), 28                                               | <i>American Mineralogist</i> <b>95</b> (2010), 487                                                  |
| Clino-ferri-holmquistite       | □Li <sub>2</sub> (Mg <sub>3</sub> Fe <sup>3+</sup> <sub>2</sub> )Si <sub>8</sub> O <sub>22</sub> (OH) <sub>2</sub>                   | A  | 2014 s.p. | Spain          | <i>American Mineralogist</i> <b>89</b> (2004), 888                                                        | CNMNC Newsletter 22 - <i>Mineralogical Magazine</i> <b>78</b> (2014), 1241                          |
| Clino-ferro-ferri-holmquistite | □Li <sub>2</sub> (Fe <sup>2+</sup> <sub>3</sub> Fe <sup>3+</sup> <sub>2</sub> )Si <sub>8</sub> O <sub>22</sub> (OH) <sub>2</sub>     | Rd | 2012 s.p. | Spain          | <i>Canadian Mineralogist</i> <b>41</b> (2003), 1345                                                       |                                                                                                     |
| Clinoferrosilite               | Fe <sup>2+</sup> <sub>2</sub> Si <sub>2</sub> O <sub>6</sub>                                                                         | A  | 1988 s.p. | Kenya          | <i>American Journal of Science</i> <b>30</b> (1935), 481                                                  | <i>Comptes Rendus Géoscience</i> <b>351</b> (2019), 129                                             |
| Clino-ferro-suenoite           | □Mn <sup>2+</sup> <sub>2</sub> Fe <sup>2+</sup> <sub>5</sub> Si <sub>8</sub> O <sub>22</sub> (OH) <sub>2</sub>                       | A  | 2024-032  | Sweden         | <i>European Journal of Mineralogy</i> <b>37</b> (2025), 221                                               |                                                                                                     |
| Clinohedrite                   | CaZn(SiO <sub>4</sub> )(H <sub>2</sub> O)                                                                                            | G  | 1898      | USA            | <i>American Journal of Science</i> <b>5</b> (1898), 289                                                   | <i>Zeitschrift für Kristallographie</i> <b>144</b> (1976), 377                                      |
| Clinohumite                    | Mg <sub>9</sub> (SiO <sub>4</sub> ) <sub>4</sub> F <sub>2</sub>                                                                      | G  | 1876      | Italy          | <i>Neues Jahrbuch für Mineralogie, Geologie und Paläontologie</i> (1876), 640                             | <i>American Mineralogist</i> <b>86</b> (2001), 981                                                  |
| Clinojimthompsonite            | Mg <sub>5</sub> Si <sub>6</sub> O <sub>16</sub> (OH) <sub>2</sub>                                                                    | A  | 1977-012  | USA            | <i>American Mineralogist</i> <b>63</b> (1978), 1000                                                       | <i>American Mineralogist</i> <b>63</b> (1978), 1053                                                 |
| Clinokurchatovite              | CaMgB <sub>2</sub> O <sub>5</sub>                                                                                                    | A  | 1982-017  | Kazakhstan     | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>112</b> (1983), 483                         | <i>Minerals</i> <b>8</b> (2018), 332                                                                |
| Clinometaborite                | HBO <sub>2</sub>                                                                                                                     | A  | 2010-022  | Italy          | <i>Canadian Mineralogist</i> <b>49</b> (2011), 1273                                                       |                                                                                                     |
| Clino-oscar Kempfite           | Ag <sub>15</sub> Pb <sub>6</sub> Sb <sub>21</sub> Bi <sub>18</sub> S <sub>72</sub>                                                   | A  | 2012-086  | Bolivia        | <i>European Journal of Mineralogy</i> <b>30</b> (2018), 569                                               |                                                                                                     |
| Clinophosinaite                | Na <sub>3</sub> Ca(SiO <sub>3</sub> )(PO <sub>4</sub> )                                                                              | A  | 1979-083  | Russia         | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>110</b> (1981), 351                         | <i>Soviet Physics - Crystallography</i> <b>25</b> (1980), 138                                       |
| Clinoptilolite-Ca              | Ca <sub>3</sub> (Si <sub>30</sub> Al <sub>6</sub> )O <sub>72</sub> ·20H <sub>2</sub> O                                               | A  | 1997 s.p. | Japan          | <i>Zeitschrift für Kristallographie</i> <b>145</b> (1977), 216                                            | <i>American Mineralogist</i> <b>78</b> (1993), 260                                                  |
| Clinoptilolite-K               | K <sub>6</sub> (Si <sub>30</sub> Al <sub>6</sub> )O <sub>72</sub> ·20H <sub>2</sub> O                                                | Rn | 1997 s.p. | USA            | <i>American Mineralogist</i> <b>17</b> (1932), 128                                                        | <i>Zeitschrift für Kristallographie, suppl.</i> <b>30</b> (2009), 395                               |
| Clinoptilolite-Na              | Na <sub>6</sub> (Si <sub>30</sub> Al <sub>6</sub> )O <sub>72</sub> ·20H <sub>2</sub> O                                               | A  | 1997 s.p. | USA            | <i>U.S. Geological Survey, Professional Paper</i> <b>634</b> (1969), 1                                    | <i>Zeitschrift für Kristallographie, suppl.</i> <b>30</b> (2009), 395                               |
| Clinosafflorite                | CoAs <sub>2</sub>                                                                                                                    | A  | 1970-014  | Canada         | <i>Canadian Mineralogist</i> <b>10</b> (1971), 877                                                        | <i>Bulletin de la Société Française de Minéralogie et de Cristallographie</i> <b>89</b> (1966), 213 |
| Clino-suenoite                 | □Mn <sup>2+</sup> <sub>2</sub> Mg <sub>5</sub> Si <sub>8</sub> O <sub>22</sub> (OH) <sub>2</sub>                                     | A  | 2016-111  | Italy          | <i>Mineralogical Magazine</i> <b>82</b> (2018), 189                                                       |                                                                                                     |
| Clinosulphur                   | S                                                                                                                                    | Rn | 2022 s.p. | Italy          | <i>Atti dell'Accademia Gioenia di Scienze Naturali Ser. V</i> <b>5</b> (1912), 1                          | <i>Acta Crystallographica</i> <b>B62</b> (2006), 953                                                |
| Clinotobermorite               | Ca <sub>4</sub> Si <sub>6</sub> O <sub>17</sub> (H <sub>2</sub> O) <sub>2</sub> ·(Ca·3H <sub>2</sub> O)                              | Rd | 2014 s.p. | Japan          | <i>Mineralogical Magazine</i> <b>56</b> (1992), 353                                                       | <i>American Mineralogist</i> <b>84</b> (1999), 1613                                                 |
| Clinoungemachite               | K <sub>3</sub> Na <sub>8</sub> Fe <sup>3+</sup> (SO <sub>4</sub> ) <sub>6</sub> (OH) <sub>2</sub> ·10H <sub>2</sub> O                | G  | 1938      | Chile          | <i>American Mineralogist</i> <b>23</b> (1938), 314                                                        |                                                                                                     |
| Clinozoisite                   | Ca <sub>2</sub> Al <sub>3</sub> (Si <sub>2</sub> O <sub>7</sub> )(SiO <sub>4</sub> )O(OH)                                            | A  | 2006 s.p. | Austria        | <i>Zeitschrift für Krystallographie</i> <b>26</b> (1896), 156                                             | <i>European Journal of Mineralogy</i> <b>23</b> (2011), 731                                         |
| Clintonite                     | CaAlMg <sub>2</sub> (SiAl <sub>3</sub> O <sub>10</sub> )(OH) <sub>2</sub>                                                            | A  | 1998 s.p. | USA            | Geology of New York. Part I. Geology of the First Geological District. Carroll & Cook, Albany (1843), 467 | <i>Physics and Chemistry of Minerals</i> <b>39</b> (2012), 385                                      |
| Clogauite                      | PbBi <sub>4</sub> Te <sub>4</sub> S <sub>3</sub>                                                                                     | A  | 2023-062  | United Kingdom | <i>Mineralogical Magazine</i> <b>88</b> (2024), 461                                                       |                                                                                                     |
| Cloncurryite                   | Cu <sub>0.5</sub> (VO) <sub>0.5</sub> Al <sub>2</sub> (PO <sub>4</sub> ) <sub>2</sub> F <sub>2</sub> (H <sub>2</sub> O) <sub>5</sub> | A  | 2005-060  | Australia      | <i>Australian Journal of Mineralogy</i> <b>13</b> (2007), 5                                               |                                                                                                     |
| Cloudite                       | BaFe <sup>3+</sup> <sub>3</sub> (PO <sub>4</sub> )(SO <sub>4</sub> )(OH) <sub>6</sub>                                                | A  | 2023-047  | Australia      | <i>Canadian Journal of Mineralogy and Petrology</i> <b>64</b> (2026), 95                                  |                                                                                                     |

|                      |                                                                                                                 |    |           |              |                                                                                                                                        |                                                                                             |
|----------------------|-----------------------------------------------------------------------------------------------------------------|----|-----------|--------------|----------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| Coalingite           | $\text{Mg}_{10}\text{Fe}^{3+}_2(\text{CO}_3)(\text{OH})_{24}\cdot 2\text{H}_2\text{O}$                          | A  | 1965-011  | USA          | <i>American Mineralogist</i> <b>50</b> (1965), 1893                                                                                    | <i>Mineralogical Magazine</i> <b>38</b> (1971), 286                                         |
| Cobaltarthurite      | $\text{CoFe}^{3+}_2(\text{AsO}_4)_2(\text{OH})_2(\text{H}_2\text{O})_4$                                         | A  | 2001-052  | Spain        | <i>Canadian Mineralogist</i> <b>40</b> (2002), 725                                                                                     | <i>Canadian Mineralogist</i> <b>43</b> (2005), 1387                                         |
| Cobaltaustinitite    | $\text{CaCo}(\text{AsO}_4)(\text{OH})$                                                                          | A  | 1987-042  | Australia    | <i>Australian Mineralogist</i> <b>3</b> (1988), 53                                                                                     | <i>Acta Crystallographica</i> <b>E63</b> (2007), i53                                        |
| Cobaltite            | $\text{CoAsS}$                                                                                                  | G  | 1832      | unknown      | Traité Élémentaire de Minéralogie, 2nd ed. Verdière, Paris (1832), 450                                                                 | <i>Canadian Mineralogist</i> <b>28</b> (1990), 719                                          |
| Cobaltkieserite      | $\text{Co}(\text{SO}_4)(\text{H}_2\text{O})$                                                                    | A  | 2002-004  | Sweden       | <i>Geologiska Föreningens i Stockholm Förhandlingar</i> <b>124</b> (2002), 117                                                         | <i>European Journal of Mineralogy</i> <b>28</b> (2016), 43                                  |
| Cobaltkoritnigite    | $\text{Co}(\text{AsO}_3\text{OH})(\text{H}_2\text{O})$                                                          | A  | 1980-013  | Germany      | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1981), 257                                                                          | <i>Mineralogical Magazine</i> <b>87</b> (2023), 194                                         |
| Cobaltlotharmeyerite | $\text{CaCo}_2(\text{AsO}_4)_2(\text{H}_2\text{O})_2$                                                           | A  | 1997-027  | Germany      | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1999), 505                                                                          | <i>Archives des Sciences de Genève</i> <b>53</b> (2000), 49                                 |
| Cobaltneustädtelite  | $\text{Bi}_2\text{Fe}^{3+}(\text{Co}, \text{Fe}^{3+})(\text{AsO}_4)_2(\text{O}, \text{OH})_4$                   | A  | 2000-012  | Germany      | <i>American Mineralogist</i> <b>87</b> (2002), 726                                                                                     |                                                                                             |
| Cobaltoblöditite     | $\text{Na}_2\text{Co}(\text{SO}_4)_2(\text{H}_2\text{O})_4$                                                     | A  | 2012-059  | USA          | <i>Mineralogical Magazine</i> <b>77</b> (2013), 367                                                                                    | <i>Physics and Chemistry of Minerals</i> <b>45</b> (2018), 801                              |
| Cobaltomenite        | $\text{Co}(\text{Se}^{4+}\text{O}_3)(\text{H}_2\text{O})_2$                                                     | Rn | 2007 s.p. | Argentina    | <i>Bulletin de la Société Minéralogique de France</i> <b>5</b> (1882), 90                                                              | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1990), 353                               |
| Cobaltpentlandite    | $\text{Co}_9\text{S}_8$                                                                                         | Rn | 1962 s.p. | Finland      | <i>American Mineralogist</i> <b>44</b> (1959), 897                                                                                     | <i>Canadian Mineralogist</i> <b>13</b> (1975), 75                                           |
| Cobaltsumcorite      | $\text{PbCo}_2(\text{AsO}_4)_2(\text{H}_2\text{O})_2$                                                           | A  | 1999-029  | Germany      | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (2001), 558                                                                          |                                                                                             |
| Cobaltzippeite       | $\text{Co}(\text{UO}_2)_2(\text{SO}_4)\text{O}_2(\text{H}_2\text{O})_{3.5}$                                     | Rn | 1971-006  | USA          | <i>Canadian Mineralogist</i> <b>14</b> (1976), 429                                                                                     | <i>Canadian Mineralogist</i> <b>41</b> (2003), 687                                          |
| Coccinite            | $\text{HgI}_2$                                                                                                  | G  | 1845      | Mexico       | Handbuch der bestimmenden Mineralogie. Braumüller and Seidel, Wien (1845), 572                                                         | <i>Acta Crystallographica</i> <b>B63</b> (2007), 828                                        |
| Cochromite           | $\text{CoCr}_2\text{O}_4$                                                                                       | A  | 1978-049  | South Africa | <i>Bulletin du Bureau des Recherches Géologiques et Minières, Sect. II</i> <b>3</b> (1978), 225                                        | <i>Mineralogical Magazine</i> <b>67</b> (2003), 547                                         |
| Coconinoite          | $\text{Fe}^{3+}_2\text{Al}_2(\text{UO}_2)_2(\text{PO}_4)_4(\text{SO}_4)(\text{OH})_2\cdot 20\text{H}_2\text{O}$ | A  | 1965-003  | USA          | <i>American Mineralogist</i> <b>51</b> (1966), 651                                                                                     | <i>Doklady Akademii Nauk SSSR</i> <b>329</b> (1993), 772                                    |
| Coesite              | $\text{SiO}_2$                                                                                                  | A  | 1962 s.p. | USA          | <i>Science</i> <b>132</b> (1960), 220                                                                                                  | <i>Physics and Chemistry of Minerals</i> <b>45</b> (2018), 873                              |
| Coffinite            | $\text{U}(\text{SiO}_4)\cdot n\text{H}_2\text{O}$                                                               | G  | 1956      | USA          | <i>American Mineralogist</i> <b>41</b> (1956), 675                                                                                     | <i>European Journal of Mineralogy</i> <b>22</b> (2010), 57                                  |
| Cohenite             | $\text{CFe}_3$                                                                                                  | G  | 1889      | Slovakia     | <i>Annalen des Kaiserlich-Königlichen Naturhistorischen Hofmuseums</i> <b>4</b> (1889), 93                                             | <i>Journal of Applied Crystallography</i> <b>37</b> (2004), 82                              |
| Coiraitite           | $(\text{Pb}, \text{Sn})_{12.5}\text{As}_3\text{Sn}_5\text{FeS}_{28}$                                            | A  | 2005-024  | Argentina    | <i>Mineralogical Magazine</i> <b>72</b> (2008), 1083                                                                                   |                                                                                             |
| Colchesterite        | $\text{Bi}^{3+}_2\text{Mo}^{6+}_2\text{O}_9$                                                                    | A  | 2023-053  | Australia    | CNMNC Newsletter 75 - <i>Mineralogical Magazine</i> <b>87</b> (2023), 955; <i>European Journal of Mineralogy</i> <b>35</b> (2023), 891 | <a href="https://doi.org/10.1180/mgm.2026.10234">https://doi.org/10.1180/mgm.2026.10234</a> |
| Coldwellite          | $\text{Pd}_3\text{Ag}_2\text{S}$                                                                                | A  | 2014-045  | Canada       | <i>Canadian Mineralogist</i> <b>53</b> (2015), 845                                                                                     |                                                                                             |
| Colemanite           | $\text{CaB}_3\text{O}_4(\text{OH})_3(\text{H}_2\text{O})$                                                       | G  | 1884      | USA          | <i>American Journal of Science, Ser. III</i> <b>28</b> (1884), 447                                                                     | <i>Physics and Chemistry of Minerals</i> <b>45</b> (2018), 405                              |
| Colimaite            | $\text{K}_3\text{VS}_4$                                                                                         | A  | 2007-045  | Mexico       | <i>Revista Mexicana de Ciencias Geológicas</i> <b>26</b> (2009), 600                                                                   |                                                                                             |
| Colinowensite        | $\text{BaCuSi}_2\text{O}_6$                                                                                     | A  | 2012-060  | South Africa | <i>Mineralogical Magazine</i> <b>79</b> (2015), 1769                                                                                   | <i>Zapiski Rossiyskogo Mineralogicheskogo Obshchestva</i> <b>146(2)</b> (2017), 125         |
| Collinsite           | $\text{Ca}_2\text{Mg}(\text{PO}_4)_2(\text{H}_2\text{O})_2$                                                     | G  | 1927      | Canada       | <i>Canada Department of Mines, Bulletin</i> <b>46</b> (1927), 2                                                                        | <i>Canadian Mineralogist</i> <b>44</b> (2006), 1181                                         |

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|----------------|-----------------------------------------------------------------------------------------------------------------|----|-----------|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
| Colomeraite    | $\text{NaTi}^{3+}\text{Si}_2\text{O}_6$                                                                         | A  | 2021-061  | Spain (meteorite)                | CNMNC Newsletter 63 - <i>Mineralogical Magazine</i> <b>85</b> (2021), 910; <i>European Journal of Mineralogy</i> <b>33</b> (2021), 639 | <a href="https://doi.org/10.2138/am-2025-10003">https://doi.org/10.2138/am-2025-10003</a> |
| Coloradoite    | $\text{HgTe}$                                                                                                   | G  | 1878      | USA                              | <i>Proceedings of the American Philosophical Society</i> <b>17</b> (1878), 113                                                         | <i>Crystallography Reports</i> <b>66</b> (2021), 29                                       |
| Colquiriite    | $\text{CaLiAlF}_6$                                                                                              | A  | 1980-015  | Bolivia                          | <i>Tschermaks Mineralogische und Petrographische Mitteilungen</i> <b>27</b> (1980), 275                                                | <i>Crystallography Reports</i> <b>38</b> (1993), 446                                      |
| Columbite-(Fe) | $\text{Fe}^{2+}\text{Nb}_2\text{O}_6$                                                                           | Rn | 2007 s.p. | USA                              | System of Mineralogy, vol. II. Bell & Bradfute, Edinburgh (1805), 582                                                                  | <i>Neues Jahrbuch für Mineralogie Abhandlungen</i> <b>192</b> (2015), 275                 |
| Columbite-(Mg) | $\text{MgNb}_2\text{O}_6$                                                                                       | Rn | 1967 s.p. | Tajikistan                       | <i>Doklady Akademii Nauk SSSR</i> <b>148</b> (1963), 420                                                                               | <i>Journal of Solid State Chemistry</i> <b>134</b> (1997), 76                             |
| Columbite-(Mn) | $\text{Mn}^{2+}\text{Nb}_2\text{O}_6$                                                                           | Rn | 2007 s.p. | USA                              | The System of Mineralogy of James Dwight Dana 1837-1868, Descriptive Mineralogy, 6th ed. Wiley, New York (1892), 731                   | <i>Mineralogical Magazine</i> <b>87</b> (2023), 337                                       |
| Colusite       | $\text{Cu}_{13}\text{VAs}_3\text{S}_{16}$                                                                       | G  | 1933      | USA                              | <i>American Mineralogist</i> <b>18</b> (1933), 528                                                                                     | <i>American Mineralogist</i> <b>79</b> (1994), 750                                        |
| Comancheite    | $\text{Hg}^{2+}_{55}\text{N}^{3-}_{24}(\text{NH}_2, \text{OH})_4(\text{Cl}, \text{Br})_{34}$                    | Rd | 1980-077  | USA                              | <i>Canadian Mineralogist</i> <b>19</b> (1981), 393                                                                                     | <i>Mineralogical Magazine</i> <b>77</b> (2013), 3217                                      |
| Combeite       | $\text{Na}_{4.5}\text{Ca}_{3.5}\text{Si}_6\text{O}_{17.5}(\text{OH})_{0.5}$                                     | G  | 1957      | Democratic Republic of the Congo | <i>Mineralogical Magazine</i> <b>31</b> (1957), 503                                                                                    | <i>Mineralogy and Petrology</i> <b>117</b> (2023), 293                                    |
| Comblainite    | $\text{Ni}_4\text{Co}^{3+}_2(\text{OH})_{12}(\text{CO}_3)_3 \cdot 3\text{H}_2\text{O}$                          | A  | 1978-009  | Democratic Republic of the Congo | <i>Bulletin de Minéralogie</i> <b>103</b> (1980), 113                                                                                  |                                                                                           |
| Compreignacite | $\text{K}_2(\text{UO}_2)_6\text{O}_4(\text{OH})_6(\text{H}_2\text{O})_7$                                        | A  | 1964-026  | France                           | <i>Bulletin de la Société Française de Minéralogie et de Cristallographie</i> <b>87</b> (1964), 365                                    | <i>Canadian Mineralogist</i> <b>36</b> (1998), 1061                                       |
| Congolite      | $\text{Fe}^{2+}_3\text{B}_7\text{O}_{13}\text{Cl}$                                                              | A  | 1971-030  | Republic of the Congo            | <i>Kali und Steinsalz</i> <b>6</b> (1972), 1                                                                                           | <i>Canadian Mineralogist</i> <b>35</b> (1997), 189                                        |
| Conichalcite   | $\text{CaCu}(\text{AsO}_4)(\text{OH})$                                                                          | G  | 1849      | Spain                            | <i>Annalen der Physik und Chemie</i> <b>77</b> (1849), 139                                                                             | <i>Journal of Mineralogical and Petrological Sciences</i> <b>104</b> (2009), 125          |
| Connellite     | $\text{Cu}_{36}(\text{SO}_4)(\text{OH})_{62}\text{Cl}_8 \cdot 6\text{H}_2\text{O}$                              | G  | 1850      | USA                              | System of Mineralogy, 3rd ed. Putnam, New York (1850), 523                                                                             | <i>Axis</i> <b>2</b> (2006), 1                                                            |
| Cookeite       | $(\text{Al}, \text{Li})_3\text{Al}_2(\text{Si}, \text{Al})_4\text{O}_{10}(\text{OH})_8$                         | G  | 1866      | USA                              | <i>American Journal of Science and Arts</i> <b>91</b> (1866) 246                                                                       | <i>American Mineralogist</i> <b>89</b> (2004), 1510                                       |
| Coombsite      | $\text{KMn}^{2+}_{13}(\text{Si}, \text{Al})_{18}\text{O}_{42}(\text{OH})_{14}$                                  | A  | 1989-058  | New Zealand                      | <i>New Zealand Journal of Geology and Geophysics</i> <b>34</b> (1991), 329                                                             |                                                                                           |
| Cooperite      | $\text{PtS}$                                                                                                    | Rd | 2022 s.p. | South Africa                     | <i>Journal of Chemical, Metallurgical and Mining Society of South Africa</i> <b>28</b> (1928), 281                                     | <i>Crystallography Reports</i> <b>61</b> (2016), 193                                      |
| Coparsite      | $\text{Cu}^{2+}_4\text{O}_2(\text{AsO}_4)\text{Cl}$                                                             | A  | 1996-064  | Russia                           | <i>Canadian Mineralogist</i> <b>37</b> (1999), 911                                                                                     | <i>Zeitschrift für Kristallographie</i> <b>213</b> (1998), 650                            |
| Copiapite      | $\text{Fe}^{2+}\text{Fe}^{3+}_4(\text{SO}_4)_6(\text{OH})_2(\text{H}_2\text{O})_{14} \cdot 6\text{H}_2\text{O}$ | G  | 1833      | Chile                            | <i>Annalen der Physik und Chemie</i> <b>27</b> (1833), 309                                                                             | <i>Acta Mineralogica Sinica</i> <b>30</b> (2010), 1                                       |
| Copper         | $\text{Cu}$                                                                                                     | G  | ?         | unknown                          | original paper?                                                                                                                        |                                                                                           |
| Coquandite     | $\text{Sb}^{3+}_{6+x}\text{O}_{8+x}(\text{SO}_4)(\text{OH})_x(\text{H}_2\text{O})_{1-x}$ ( $x = 0.3$ )          | A  | 1991-024  | Italy                            | <i>Mineralogical Magazine</i> <b>56</b> (1992), 599                                                                                    | <i>Mineralogical Magazine</i> <b>78</b> (2014), 871                                       |
| Coquimbite     | $\text{AlFe}^{3+}_3(\text{SO}_4)_6(\text{H}_2\text{O})_{12} \cdot 6\text{H}_2\text{O}$                          | Rd | 2019 s.p. | Chile                            | Vollständiges Handbuch der Mineralogie, Vol. 2. Arnoldische, Dresden und Leipzig (1841), 100                                           | <i>American Mineralogist</i> <b>110</b> (2025), 1815                                      |
| Coralloite     | $\text{Mn}^{2+}\text{Mn}^{3+}_2(\text{AsO}_4)_2(\text{OH})_2(\text{H}_2\text{O})_4$                             | A  | 2010-012  | Italy                            | <i>American Mineralogist</i> <b>97</b> (2012), 727                                                                                     |                                                                                           |

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|-----------------|-------------------------------------------------------------------------------------------------------------------|----|-----------|----------------------------------|--------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
| Corderoite      | $\text{Hg}_3\text{S}_2\text{Cl}_2$                                                                                | A  | 1973-037  | USA                              | <i>American Mineralogist</i> <b>59</b> (1974), 652                                                     | <i>Acta Crystallographica</i> <b>B24</b> (1968), 156                             |
| Cordierite      | $\text{Mg}_2\text{Al}_3(\text{Si}_5\text{AlO}_{18})$                                                              | G  | 1813      | Germany ?                        | Tableau Méthodique Espèces Minérales, Seconde Partie. D'Hautel, Paris (1813), 219                      | <i>American Mineralogist</i> <b>100</b> (2015), 1821                             |
| Cordylite-(Ce)  | $(\text{Na,Ca},\square)\text{BaCe}_2(\text{CO}_3)_4(\text{F},\text{O})$                                           | Rn | 1987 s.p. | Denmark (Greenland)              | <i>Meddelelser om Grønland</i> <b>24</b> (1901), 42                                                    | <i>American Mineralogist</i> <b>83</b> (1998), 178                               |
| Cordylite-(La)  | $\text{NaCaBa}_2\text{La}_3\text{Sr}(\text{CO}_3)_8\text{F}_2$                                                    | A  | 2010-058  | Russia                           | <i>Canadian Mineralogist</i> <b>50</b> (2012), 1281                                                    |                                                                                  |
| Corkite         | $\text{PbFe}^{3+}_3(\text{SO}_4)(\text{PO}_4)(\text{OH})_6$                                                       | Rd | 1987 s.p. | Ireland                          | <i>Annales des Mines</i> <b>15</b> (1869), 405                                                         | <i>Neues Jahrbuch für Mineralogie Abhandlungen</i> <b>185</b> (2009), 313        |
| Cornetite       | $\text{Cu}_3(\text{PO}_4)(\text{OH})_3$                                                                           | G  | 1916      | Democratic Republic of the Congo | Les Minéraux et les Roches. Liège (1916), 452                                                          | <i>Mineralogy and Petrology</i> <b>40</b> (1989), 127                            |
| Cornubite       | $\text{Cu}_5(\text{AsO}_4)_2(\text{OH})_4$                                                                        | A  | 1962 s.p. | United Kingdom                   | <i>Mineralogical Magazine</i> <b>32</b> (1959), 1                                                      | <i>Bulletin of the Geological Society of Finland</i> <b>57</b> (1985), 119       |
| Cornwallite     | $\text{Cu}_5(\text{AsO}_4)_2(\text{OH})_4$                                                                        | G  | 1847      | United Kingdom                   | <i>Königliche Böhmische Gesellschaft der Wissenschaften, Prague, Abhandlungen</i> <b>4</b> (1847), 649 | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1999), 468                    |
| Coronadite      | $\text{Pb}(\text{Mn}^{4+}_6\text{Mn}^{3+}_2)\text{O}_{16}$                                                        | G  | 1904      | USA                              | <i>American Journal of Science</i> <b>18</b> (1904), 448                                               | <i>American Mineralogist</i> <b>74</b> (1989), 913                               |
| Correianevesite | $\text{Fe}^{2+}\text{Mn}^{2+}_2(\text{PO}_4)_2(\text{H}_2\text{O})_3$                                             | A  | 2013-007  | Brasil                           | <i>American Mineralogist</i> <b>99</b> (2014), 811                                                     | <i>Bulletin de la Société Royale des Sciences de Liège</i> <b>90</b> (2021), 125 |
| Corrensite      | $(\text{Ca,Na,K})_{1-x}(\text{Mg,Fe,Al})_9(\text{Si,Al})_8\text{O}_{20}(\text{OH})_{10}\cdot n\text{H}_2\text{O}$ | G  | 1954      | Germany                          | <i>Beiträge zur Mineralogie und Petrographie</i> <b>4</b> (1954), 130                                  | <i>American Mineralogist</i> <b>82</b> (1997), 109                               |
| Cortesognoite   | $\text{CaV}_2\text{Si}_2\text{O}_7(\text{OH})_2(\text{H}_2\text{O})$                                              | A  | 2014-029  | Italy                            | <i>Crystals</i> <b>13</b> (2023), 1295                                                                 |                                                                                  |
| Corundum        | $\text{Al}_2\text{O}_3$                                                                                           | G  | 1714 ?    | India ?                          | original paper?                                                                                        | <i>Earth Science Frontiers</i> <b>18</b> (2011), 341                             |
| Corvusite       | $(\text{Na,Ca,K})_{1-x}(\text{V}^{5+},\text{V}^{4+},\text{Fe}^{2+})_8\text{O}_{20}(\text{H}_2\text{O})_4$         | G  | 1933      | USA                              | <i>American Mineralogist</i> <b>18</b> (1933), 195                                                     | <i>Canadian Mineralogist</i> <b>32</b> (1994), 339                               |
| Cosalite        | $\text{Pb}_2\text{Bi}_2\text{S}_5$                                                                                | G  | 1868      | Mexico                           | <i>American Journal of Science and Arts</i> <b>95</b> (1868), 305                                      | <i>Canadian Mineralogist</i> <b>57</b> (2019), 647                               |
| Coskrenite-(Ce) | $\text{Ce}_2(\text{SO}_4)_2(\text{C}_2\text{O}_4)(\text{H}_2\text{O})_8$                                          | A  | 1996-056  | USA                              | <i>Canadian Mineralogist</i> <b>37</b> (1999), 1453                                                    |                                                                                  |
| Cossaite        | $(\text{Mg}_{0.5},\square)\text{Al}_6(\text{SO}_4)_6(\text{HSO}_4)\text{F}_6(\text{H}_2\text{O})_{36}$            | A  | 2009-031  | Italy                            | <i>Mineralogical Magazine</i> <b>75</b> (2011), 2847                                                   |                                                                                  |
| Costibite       | $\text{CoSbS}$                                                                                                    | A  | 1969-014  | Australia                        | <i>American Mineralogist</i> <b>55</b> (1970), 10                                                      | <i>Journal of Thermal Analysis and Calorimetry</i> <b>103</b> (2011), 23         |
| Cotunnite       | $\text{PbCl}_2$                                                                                                   | G  | 1825      | Italy                            | Prodromo della mineralogia vesuviana. Da' Torchi del Tramater, Napoli (1825)                           | <i>Soviet Physics - Crystallography</i> <b>21</b> (1976), 38                     |
| Coulsonite      | $\text{Fe}^{2+}\text{V}^{3+}_2\text{O}_4$                                                                         | Rd | 1962 s.p. | India                            | <i>Memoirs of the Geological Survey of India</i> <b>69</b> (1937), 21                                  | <i>Minerals</i> <b>10</b> (2020), 843                                            |
| Cousinite       | $\text{MgU}^{4+}_2(\text{MoO}_4)_2(\text{OH})_6\cdot 2\text{H}_2\text{O} (?)$                                     | Q  | 1958      | Democratic Republic of the Congo | <i>Geologie en Mijnbouw</i> <b>20</b> (1958), 449                                                      | <i>Annales de la Société Géologique de Belgique</i> <b>98</b> (1975), 155        |
| Coutinhoite     | $\text{Th}_x\text{Ba}_{1-2x}(\text{UO}_2)_2\text{Si}_5\text{O}_{13}\cdot 3\text{H}_2\text{O}$                     | A  | 2003-025  | Brazil                           | <i>American Mineralogist</i> <b>89</b> (2004), 721                                                     |                                                                                  |
| Covellite       | $\text{CuS}$                                                                                                      | G  | 1832      | Italy                            | Traité Élémentaire de Minéralogie, 2nd ed. Verdière, Paris (1832), 409                                 | <i>Zeitschrift für Kristallographie</i> <b>184</b> (1988), 111                   |
| Cowlesite       | $\text{Ca}(\text{Al}_2\text{Si}_3)\text{O}_{10}\cdot 5\text{-}6\text{H}_2\text{O}$                                | A  | 1975-016  | USA                              | <i>American Mineralogist</i> <b>60</b> (1975), 951                                                     | <i>ACS Central Science</i> <b>6</b> (2020), 1578                                 |
| Coyoteite       | $\text{NaFe}_3\text{S}_5\cdot 2\text{H}_2\text{O}$                                                                | A  | 1978-042  | USA                              | <i>American Mineralogist</i> <b>68</b> (1983), 245                                                     |                                                                                  |
| Crandallite     | $\text{CaAl}_3(\text{PO}_4)(\text{PO}_3\text{OH})(\text{OH})_6$                                                   | Rd | 1999 s.p. | USA                              | <i>American Journal of Science</i> <b>43</b> (1917), 69                                                | <i>Mineralogical Magazine</i> <b>75</b> (2011), 145                              |
| Cranswickite    | $\text{Mg}(\text{SO}_4)(\text{H}_2\text{O})_4$                                                                    | A  | 2010-016  | Argentina                        | <i>American Mineralogist</i> <b>96</b> (2011), 869                                                     |                                                                                  |

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|----------------------------------|----------------------------------------------------------------------------------------------------|----|----------------|---------------------|------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| Crawfordite                      | $\text{Na}_3\text{Sr}(\text{PO}_4)(\text{CO}_3)$                                                   | A  | 1993-030       | Russia              | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>123(3)</b> (1994), 107                                                   | <i>Doklady Akademii Nauk SSSR</i> <b>322</b> (1992), 531                                |
| Creaseyite                       | $\text{Cu}_2\text{Pb}_2\text{Fe}^{3+}_2\text{Si}_5\text{O}_{17}\cdot 6\text{H}_2\text{O}$          | A  | 1974-044       | USA                 | <i>Mineralogical Magazine</i> <b>40</b> (1975), 227                                                                                      | <i>Zeitschrift für Kristallographie</i> <b>228</b> (2013), 134                          |
| Crednerite                       | $\text{CuMnO}_2$                                                                                   | G  | 1849           | Germany             | <i>Annalen der Physik und Chemie</i> <b>74</b> (1849), 559                                                                               | <i>Chemistry of Materials</i> <b>23</b> (2011), 85                                      |
| Creedite                         | $\text{Ca}_3\text{Al}_2(\text{SO}_4)(\text{OH})_2\text{F}_8(\text{H}_2\text{O})_2$                 | G  | 1916           | USA                 | <i>Proceedings of the National Academy of Sciences</i> <b>2</b> (1916), 360                                                              | <i>Inorganic Materials</i> <b>47</b> (2011), 1402                                       |
| Crerarite                        | $(\text{Pt,Pb})\text{Bi}_3(\text{S,Se})_{4-x}$ ( $x = 0.4-0.8$ )                                   | A  | 1994-003       | Canada              | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1994), 567                                                                            |                                                                                         |
| Crichtonite                      | $\text{Sr}(\text{Mn,Y,U})\text{Fe}_2(\text{Ti,Fe,Cr,V})_{18}(\text{O,OH})_{38}$                    | A  | 1980 s.p.      | France              | <i>The Monthly Review</i> <b>73</b> (1814), 17                                                                                           | <i>American Mineralogist</i> <b>61</b> (1976), 1203                                     |
| Criddleite                       | $\text{Ag}_2\text{Au}_3\text{TiSb}_{10}\text{S}_{10}$                                              | A  | 1987-037       | Canada              | <i>Mineralogical Magazine</i> <b>52</b> (1988), 691                                                                                      |                                                                                         |
| Crimsonite                       | $\text{PbFe}^{3+}_2(\text{PO}_4)_2(\text{OH})_2$                                                   | A  | 2014-095       | USA                 | <i>Mineralogical Magazine</i> <b>80</b> (2016), 925                                                                                      |                                                                                         |
| Cristobalite                     | $\text{SiO}_2$                                                                                     | G  | 1887           | Mexico              | <i>Neues Jahrbuch für Mineralogie, Geologie und Paläontologie</i> (1887), 198                                                            | <i>American Mineralogist</i> <b>107</b> (2022), 1325                                    |
| Crocobelonite                    | $\text{CaFe}^{3+}_2\text{O}(\text{PO}_4)_2$                                                        | A  | 2020-005       | Jordan              | <i>American Mineralogist</i> <b>108</b> (2023), 1973                                                                                     |                                                                                         |
| Crocoite                         | $\text{Pb}(\text{CrO}_4)$                                                                          | G  | 1832           | Russia              | Traité Élémentaire de Minéralogie, 2nd ed. Verdière, Paris (1832), 669                                                                   | <i>Inorganic Chemistry</i> <b>58</b> (2019), 5966                                       |
| Cronstedtite                     | $(\text{Fe}^{2+},\text{Fe}^{3+})_3(\text{Si,Fe}^{3+})_2\text{O}_5(\text{OH})_4$                    | G  | 1821           | Czech Republic      | <i>Journal für Chemie und Physik</i> <b>32</b> (1821), 69                                                                                | <i>Acta Crystallographica</i> <b>B70</b> (2014), 963                                    |
| Cronsite                         | $\text{Ca}_{0.2}\text{CrS}_2\cdot 2\text{H}_2\text{O}$                                             | A  | 1999-018       | USA (meteorite)     | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>130(3)</b> (2001), 29                                                    |                                                                                         |
| Crookesite                       | $\text{Cu}_7\text{TiSe}_4$                                                                         | G  | 1867           | Sweden              | <i>Bulletin Mensuel de la Société Chimique de Paris</i> <b>7</b> (1867), 409                                                             | <i>Journal of Solid State Chemistry</i> <b>90</b> (1991), 61                            |
| Crowningshieldite                | $(\text{Ni}_{0.9}\text{Fe}_{0.1})\text{S}$                                                         | A  | 2018-072       | Lesotho             | CNMNC Newsletter 45 - <i>Mineralogical Magazine</i> <b>82</b> (2018), 1225; <i>European Journal of Mineralogy</i> <b>30</b> (2018), 1037 | <a href="https://doi.org/10.2138/am-2020-7567">https://doi.org/10.2138/am-2020-7567</a> |
| Crybostryxite                    | $\text{KZnCl}_3(\text{H}_2\text{O})\cdot \text{H}_2\text{O}$                                       | A  | 2014-058       | Russia              | <i>European Journal of Mineralogy</i> <b>27</b> (2015), 805                                                                              |                                                                                         |
| Cryolite                         | $\text{Na}_2\text{NaAlF}_6$                                                                        | G  | 1799           | Denmark (Greenland) | <i>Allgemeines Journal der Chemie</i> <b>2</b> (1799), 502                                                                               | <i>Journal of Solid State Chemistry</i> <b>177</b> (2004), 654                          |
| Cryolithionite                   | $\text{Na}_3\text{Al}_2(\text{LiF}_4)_3$                                                           | G  | 1904           | Denmark (Greenland) | <i>Oversigt over det Kongelige Danske Videnskabernes Selskabs Forhandlinger</i> (1904), 2                                                | <i>Doklady Akademii Nauk SSSR</i> <b>356</b> (1997), 188                                |
| Cryptochalcite                   | $\text{K}_2\text{Cu}_5\text{O}(\text{SO}_4)_5$                                                     | A  | 2014-106       | Russia              | <i>European Journal of Mineralogy</i> <b>30</b> (2018), 593                                                                              |                                                                                         |
| Cryptohalite                     | $(\text{NH}_4)_2\text{SiF}_6$                                                                      | G  | 1874           | Italy               | <i>Rendiconti della Reale Accademia delle Scienze Fisiche e Matematiche di Napoli, Ser. I</i> <b>6</b> (1874), 1                         | <i>Journal of Chemical Physics</i> <b>44</b> (1966), 2499                               |
| Cryptomelane                     | $\text{K}(\text{Mn}^{4+}_7\text{Mn}^{3+})\text{O}_{16}$                                            | A  | 1982 s.p.<br>? | USA                 | <i>American Mineralogist</i> <b>27</b> (1942), 607                                                                                       | <i>Acta Crystallographica</i> <b>B38</b> (1982), 1056                                   |
| Cryptophyllite                   | $\text{K}_2\text{Ca}[\text{Si}_4\text{O}_{10}](\text{H}_2\text{O})_5$                              | A  | 2008-061       | Russia              | <i>Zapiski Rossiyskogo Mineralogicheskogo Obshchestva</i> <b>139(1)</b> (2010), 37                                                       | <i>European Journal of Mineralogy</i> <b>22</b> (2010), 547                             |
| Cualstibite                      | $\text{Cu}_2\text{Al}(\text{OH})_6[\text{Sb}(\text{OH})_6]$                                        | Rd | 1983-068       | Germany             | <i>Chemie der Erde</i> <b>43</b> (1984), 255                                                                                             | <i>Mineralogy and Petrology</i> <b>107</b> (2013), 171                                  |
| Cuatrocapaite-(K)                | $\text{K}_3(\text{NaMg}\square)(\text{As}_2\text{O}_3)_6\text{Cl}_6(\text{H}_2\text{O})_{16}$      | A  | 2018-084       | Chile               | <i>Mineralogical Magazine</i> <b>83</b> (2019), 741                                                                                      |                                                                                         |
| Cuatrocapaite-(NH <sub>4</sub> ) | $(\text{NH}_4)_3(\text{NaMg}\square)(\text{As}_2\text{O}_3)_6\text{Cl}_6(\text{H}_2\text{O})_{16}$ | A  | 2018-083       | Chile               | <i>Mineralogical Magazine</i> <b>83</b> (2019), 741                                                                                      |                                                                                         |

|                     |                                                                                                                |    |           |                    |                                                                                                                                        |                                                                                             |
|---------------------|----------------------------------------------------------------------------------------------------------------|----|-----------|--------------------|----------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| Cubanite            | $\text{CuFe}_2\text{S}_3$                                                                                      | G  | 1843      | Cuba               | <i>Annalen der Physik und Chemie</i> <b>59</b> (1843), 325                                                                             | <i>American Mineralogist</i> <b>77</b> (1992), 937                                          |
| Cuboargyrite        | $\text{AgSbS}_2$                                                                                               | A  | 1997-004  | Germany            | <i>Lapis</i> <b>23</b> (1998), 21                                                                                                      |                                                                                             |
| Cubo-ice            | $\text{H}_2\text{O}$                                                                                           | Rn | 2017-029  | Botswana           | <i>Science</i> <b>359</b> (2018), 1136                                                                                                 | <i>IUCrJ</i> <b>12</b> (2025), 288                                                          |
| Cubothioplumbite    | $[\text{Pb}_4(\text{OH})_4]\text{Pb}(\text{S}_2\text{O}_3)_3$                                                  | A  | 2021-091  | USA                | <i>Canadian Journal of Mineralogy and Petrology</i> <b>61</b> (2023), 623                                                              |                                                                                             |
| Cumengeite          | $\text{Pb}_{21}\text{Cu}_{20}\text{Cl}_{42}(\text{OH})_{40}(\text{H}_2\text{O})_6$                             | Rn | 2007 s.p. | Mexico             | <i>Bulletin de la Société Française de Minéralogie</i> <b>16</b> (1893), 184                                                           | <i>Mineralogical Magazine</i> <b>69</b> (2005), 1037                                        |
| Cummingtonite       | $\square\text{Mg}_2\text{Mg}_5\text{Si}_8\text{O}_{22}(\text{OH})_2$                                           | Rd | 2012 s.p. | Norway             | <i>American Journal of Science and Arts</i> <b>8</b> (1824), 1                                                                         | <i>Mineralogical Magazine</i> <b>89</b> (2025), 411                                         |
| Cupalite            | $\text{CuAl}$                                                                                                  | A  | 1983-084  | Russia (meteorite) | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>114</b> (1985), 90                                                       |                                                                                             |
| Cuprite             | $\text{Cu}_2\text{O}$                                                                                          | G  | 1845      | Germany            | Handbuch der Bestimmenden Mineralogie. Braumüller and Seidel, Wien (1845), 546                                                         | <i>Journal of Applied Crystallography</i> <b>33</b> (2000), 156                             |
| Cuproauride         | $\text{Cu}_3\text{Au}$                                                                                         | Q  | 1939      | Russia             | <i>Comptes Rendus (Doklady) de l'Académie des Sciences de l'URSS</i> <b>24</b> (1939), 451                                             |                                                                                             |
| Cuprobismutite      | $\text{Cu}_8\text{AgBi}_{13}\text{S}_{24}$                                                                     | G  | 1884      | USA                | <i>American Journal of Science</i> <b>27</b> (1884), 355                                                                               | <i>Canadian Mineralogist</i> <b>41</b> (2003), 1481                                         |
| Cuprocherokeite     | $[\text{Pb}_8\text{Zn}_3\text{Cu}^{2+}(\text{OH})_{16}](\text{SO}_4)_4(\text{H}_2\text{O})_4$                  | A  | 2022-086  | USA                | <i>Canadian Journal of Mineralogy and Petrology</i> <b>61</b> (2023), 635                                                              |                                                                                             |
| Cuprocopiapite      | $\text{Cu}^{2+}\text{Fe}^{3+}_4(\text{SO}_4)_6(\text{OH})_2(\text{H}_2\text{O})_{14}\cdot 6\text{H}_2\text{O}$ | G  | 1938      | Chile              | <i>American Mineralogist</i> <b>23</b> (1938), 737                                                                                     |                                                                                             |
| Cuprodobrovolskyite | $\text{Na}_4\text{Cu}(\text{SO}_4)_3$                                                                          | A  | 2022-061  | Russia             | <i>Mineralogical Magazine</i> <b>88</b> (2024), 49                                                                                     |                                                                                             |
| Cuprodongchuanite   | $\text{Pb}_4\text{CuZn}_2(\text{PO}_4)_4(\text{OH})_2$                                                         | A  | 2021-065  | China              | CNMNC Newsletter 63 - <i>Mineralogical Magazine</i> <b>85</b> (2021), 910; <i>European Journal of Mineralogy</i> <b>33</b> (2021), 639 | <a href="https://doi.org/10.1180/mgm.2025.10154">https://doi.org/10.1180/mgm.2025.10154</a> |
| Cuproiridsite       | $\text{Cu}(\text{Ir}^{3+}\text{Ir}^{4+})\text{S}_4$                                                            | A  | 1984-016  | Russia             | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>114</b> (1985), 187                                                      | <i>Journal of the Physical Society of Japan</i> <b>63</b> (1994), 3333                      |
| Cuprokalinitite     | $\text{Cu}(\text{Cr}^{3+}\text{Cr}^{4+})\text{S}_4$                                                            | A  | 2010-008  | Russia             | <i>Zapiski Rossiyskogo Mineralogicheskogo Obshchestva</i> <b>139(6)</b> (2010), 39                                                     | <i>American Mineralogist</i> <b>99</b> (2014), 908                                          |
| Cupromakopavonite   | $\text{Cu}_8\text{Pb}_4\text{Ag}_3\text{Bi}_{19}\text{S}_{38}$                                                 | A  | 2005-036  | Austria            | <i>Canadian Mineralogist</i> <b>50</b> (2012), 295                                                                                     | <i>Crystallography Reports</i> <b>60</b> (2015), 791                                        |
| Cupromakovickyite   | $\text{Cu}_4\text{AgPb}_2\text{Bi}_9\text{S}_{18}$                                                             | A  | 2002-058  | Austria            | <i>Canadian Mineralogist</i> <b>46</b> (2008), 503                                                                                     | <i>Neues Jahrbuch für Mineralogie Abhandlungen</i> <b>191</b> (2013), 75                    |
| Cupromolybdite      | $\text{Cu}^{2+}_3\text{O}(\text{Mo}^{6+}\text{O}_4)_2$                                                         | A  | 2011-005  | Russia             | <i>European Journal of Mineralogy</i> <b>24</b> (2012), 749                                                                            | <i>American Mineralogist</i> <b>109</b> (2024), 471                                         |
| Cuproneyte          | $\text{Cu}_7\text{Pb}_{27}\text{Bi}_{25}\text{S}_{68}$                                                         | A  | 2008-053  | Romania            | <i>Canadian Mineralogist</i> <b>50</b> (2012), 353                                                                                     |                                                                                             |
| Cupropavonite       | $\text{Cu}_{0.9}\text{Ag}_{0.5}\text{Pb}_{0.6}\text{Bi}_{2.5}\text{S}_5$                                       | A  | 1978-033  | USA                | <i>Bulletin de Minéralogie</i> <b>102</b> (1979), 351                                                                                  | <i>Neues Jahrbuch für Mineralogie Abhandlungen</i> <b>192</b> (2015), 307                   |
| Cupropearceite      | $[\text{Cu}_6\text{As}_2\text{S}_7][\text{Ag}_9\text{CuS}_4]$                                                  | A  | 2007-046  | Kazakhstan         | <i>Mineralogical Magazine</i> <b>71</b> (2007), 641                                                                                    | <i>Periodico di Mineralogia</i> <b>84</b> (2015), 341                                       |
| Cupropolybasite     | $[\text{Cu}_6\text{Sb}_2\text{S}_7][\text{Ag}_9\text{CuS}_4]$                                                  | A  | 2008-004  | Canada             | <i>Mineralogical Magazine</i> <b>71</b> (2007), 641                                                                                    | <i>American Mineralogist</i> <b>98</b> (2013), 1279                                         |
| Cuprorhodsitite     | $(\text{Cu}^{+}_{0.5}\text{Fe}^{3+}_{0.5})\text{Rh}^{3+}_2\text{S}_4$                                          | Rd | 1984-017  | Russia             | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>114</b> (1985), 187                                                      | <i>Physical Review B</i> <b>51</b> (1995), 12673                                            |
| Cuprorivaite        | $\text{CaCuSi}_4\text{O}_{10}$                                                                                 | Rd | 1962 s.p. | Italy              | <i>Periodico di Mineralogia</i> <b>9</b> (1938), 333                                                                                   | <i>Zeitschrift für Kristallographie</i> <b>210</b> (1995), 530                              |

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| Cuprosenandorite  | $\text{Ag}_{16}\text{Cu}_8\text{Pb}_{24}\text{Sb}_{72}\text{S}_{144}$                                                    | A   | 2024-022  | Bolivia                          | CNMNC Newsletter 81 - <i>Mineralogical Magazine</i> <b>88</b> (2024), 632; <i>European Journal of Mineralogy</i> <b>36</b> (2024), 917 |                                                                                                   |
| Cuprosklodowskite | $\text{Cu}(\text{UO}_2)_2(\text{SiO}_3\text{OH})_2(\text{H}_2\text{O})_4 \cdot 2\text{H}_2\text{O}$                      | G   | 1933      | Democratic Republic of the Congo | <i>Annales de la Société Géologique de Belgique</i> <b>56</b> (1933), B331                                                             | <i>Minerals</i> <b>8</b> (2018), 551                                                              |
| Cuprospinel       | $\text{Cu}^{2+}\text{Fe}^{3+}_2\text{O}_4$                                                                               | A   | 1971-020  | Canada                           | <i>Canadian Mineralogist</i> <b>11</b> (1973), 1003                                                                                    | <i>Journal of Mineralogical and Petrological Sciences</i> <b>120</b> (2025), 241017b              |
| Cuprostibite      | $\text{Cu}_2(\text{Sb}, \text{Ti})$                                                                                      | A ? | 1969      | Denmark (Greenland)              | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>98</b> (1969), 716                                                       | <i>Zeitschrift für Anorganische und Allgemeine Chemie</i> <b>628</b> (2002), 1152                 |
| Cuprotungstite    | $\text{Cu}^{2+}_3(\text{WO}_4)_2(\text{OH})_2$                                                                           | G   | 1869      | Mexico                           | Tableau minéralogique. Hatier, Paris (1869), 32                                                                                        | <i>Mineralogical Magazine</i> <b>43</b> (1979), 448                                               |
| Cuprozhenhengite  | $\text{Pb}_4\text{CuZn}_2(\text{AsO}_4)_2(\text{PO}_4)_2(\text{OH})_2$                                                   | A   | 2021-095a | China                            | <i>American Mineralogist</i> <b>109</b> (2024), 1248                                                                                   |                                                                                                   |
| Curetonite        | $\text{Ba}(\text{Al}, \text{Ti})(\text{PO}_4)(\text{OH}, \text{O})\text{F}$                                              | A   | 1978-065  | USA                              | <i>Mineralogical Record</i> <b>10</b> (1979), 219                                                                                      | <i>American Mineralogist</i> <b>79</b> (1994), 545                                                |
| Curienite         | $\text{Pb}(\text{UO}_2)_2(\text{VO}_4)_2(\text{H}_2\text{O})_5$                                                          | Rn  | 1967-049  | Gabon                            | <i>Bulletin de la Société Française de Minéralogie et de Cristallographie</i> <b>91</b> (1968), 453                                    | <i>Bulletin de la Société Française de Minéralogie et de Cristallographie</i> <b>94</b> (1971), 8 |
| Curite            | $\text{Pb}_{3+x}[(\text{UO}_2)_4\text{O}_{4+x}(\text{OH})_{3-x}]_2(\text{H}_2\text{O})_2$                                | G   | 1921      | Democratic Republic of the Congo | <i>Comptes Rendus Hebdomadaires des Séances de l'Académie des Sciences</i> <b>173</b> (1921), 1186                                     | <i>RSC Advances</i> <b>9</b> (2019), 10058                                                        |
| Currierite        | $\text{Na}_4\text{Ca}_3\text{MgAl}_4(\text{AsO}_3\text{OH})_{12}(\text{H}_2\text{O})_9$                                  | A   | 2016-030  | Chile                            | <i>Mineralogical Magazine</i> <b>81</b> (2017), 1141                                                                                   |                                                                                                   |
| Cuspidine         | $\text{Ca}_8(\text{Si}_2\text{O}_7)_2\text{F}_4$                                                                         | G   | 1876      | Italy                            | <i>Rendiconto dell'Accademia delle Scienze Fisiche e Matematiche</i> <b>15</b> (1876), 208                                             | <i>Canadian Mineralogist</i> <b>26</b> (1988), 933                                                |
| Cuyaite           | $\text{Ca}_2\text{Mn}^{3+}\text{As}^{3+}_{14}\text{O}_{24}\text{Cl}$                                                     | A   | 2019-126  | Chile                            | <i>Mineralogical Magazine</i> <b>84</b> (2020), 477                                                                                    |                                                                                                   |
| Cuzticite         | $\text{Fe}^{3+}_2\text{Te}^{6+}\text{O}_6 \cdot 3\text{H}_2\text{O}$                                                     | A   | 1980-071  | Mexico                           | <i>Mineralogical Magazine</i> <b>46</b> (1982), 257                                                                                    |                                                                                                   |
| Cyanochroite      | $\text{K}_2\text{Cu}(\text{SO}_4)_2(\text{H}_2\text{O})_6$                                                               | G   | 1855      | Italy                            | Memoria sullo incendio vesuviano del mese di maggio 1855. Nobile, Napoli (1855)                                                        | <i>American Mineralogist</i> <b>94</b> (2009), 74                                                 |
| Cyanotrichite     | $\text{Cu}_4\text{Al}_2(\text{SO}_4)(\text{OH})_{12}(\text{H}_2\text{O})_2$                                              | A   | 1967 s.p. | Romania                          | Handbuch der Mineralogie, 2nd. ed. Schrag, Nürnberg (1839), 587                                                                        | <i>Mineralogical Magazine</i> <b>79</b> (2015), 321                                               |
| Cylindrite        | $\text{FePb}_3\text{Sn}_4\text{Sb}_2\text{S}_{14}$                                                                       | G   | 1893      | Bolivia                          | <i>Neues Jahrbuch für Mineralogie, Geologie und Paläontologie</i> <b>2</b> (1893), 125                                                 | <i>American Mineralogist</i> <b>77</b> (1992), 758                                                |
| Cymrite           | $\text{Ba}(\text{Si}, \text{Al})_4(\text{O}, \text{OH})_8 \cdot \text{H}_2\text{O}$                                      | G   | 1949      | United Kingdom                   | <i>Mineralogical Magazine</i> <b>28</b> (1949), 676                                                                                    | <i>Crystallography Reports</i> <b>55</b> (2010), 569                                              |
| Cyprine           | $\text{Ca}_{19}\text{Cu}^{2+}(\text{Al}_{11}\text{Mg})(\text{SiO}_4)_{10}(\text{Si}_2\text{O}_7)_4\text{O}(\text{OH})_9$ | A   | 2015-044  | South Africa                     | <i>European Journal of Mineralogy</i> <b>29</b> (2017), 295                                                                            |                                                                                                   |
| Cyrilovite        | $\text{NaFe}^{3+}_3(\text{PO}_4)_2(\text{OH})_4(\text{H}_2\text{O})_2$                                                   | G   | 1953      | Czech Republic                   | <i>Acta Academiae Scientiarum Naturalium Moravo-Silesiacae</i> <b>25</b> (1953), 325                                                   | <i>Journal of the Czech Geological Society</i> <b>45</b> (2000), 95                               |
| Czochralskiite    | $\text{Na}_4\text{Ca}_3\text{Mg}(\text{PO}_4)_4$                                                                         | A   | 2015-011  | Poland (meteorite)               | <i>European Journal of Mineralogy</i> <b>28</b> (2016), 969                                                                            |                                                                                                   |
| Dachiardite-Ca    | $\text{Ca}_2(\text{Si}_{20}\text{Al}_4)\text{O}_{48} \cdot 13\text{H}_2\text{O}$                                         | Rn  | 1997 s.p. | Italy                            | <i>Atti della Società Toscana di Scienze Naturali, Processi Verbal</i> <b>22</b> (1906), 150                                           | <i>Zeitschrift für Kristallographie</i> <b>166</b> (1984), 63                                     |
| Dachiardite-K     | $\text{K}_4(\text{Si}_{20}\text{Al}_4)\text{O}_{48} \cdot 13\text{H}_2\text{O}$                                          | A   | 2015-041  | Bulgaria                         | <i>Zapiski Rossiyskogo Mineralogicheskogo Obshchestva</i> <b>145(1)</b> (2016), 68                                                     | <i>Geology of Ore Deposits</i> <b>58</b> (2016), 666                                              |

|                                  |                                                                                                                              |     |           |                        |                                                                                       |                                                                   |
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| Dachiardite-Na                   | $\text{Na}_4(\text{Si}_{20}\text{Al}_4)\text{O}_{48} \cdot 13\text{H}_2\text{O}$                                             | Rn  | 1997 s.p. | Italy                  | <i>Contributions to Mineralogy and Petrology</i> <b>49</b> (1975) 63                  |                                                                   |
| Dacostaite                       | $\text{K}(\text{Mg}_2\text{Al})[\text{Mg}(\text{H}_2\text{O})_6]_2(\text{AsO}_4)_2\text{F}_6 \cdot 2\text{H}_2\text{O}$      | A   | 2024-015  | Italy                  | <i>European Journal of Mineralogy</i> <b>37</b> (2025), 39                            |                                                                   |
| Dadsonite                        | $\text{Pb}_{23}\text{Sb}_{25}\text{S}_{60}\text{Cl}$                                                                         | A   | 1968-011  | Canada / Germany / USA | <i>Mineralogical Magazine</i> <b>37</b> (1969), 437                                   | <i>Canadian Mineralogist</i> <b>44</b> (2006), 1499               |
| Dagenaisite                      | $\text{Zn}_3\text{Te}^{6+}\text{O}_6$                                                                                        | A   | 2017-017  | USA                    | <i>Canadian Mineralogist</i> <b>55</b> (2017), 867                                    |                                                                   |
| Daliranite                       | $\text{PbHgAs}_2\text{S}_5$                                                                                                  | A   | 2007-010  | Iran                   | <i>Mineralogical Magazine</i> <b>73</b> (2009), 871                                   | <i>Acta Crystallographica</i> <b>B75</b> (2019), 711              |
| Dalnegorskite                    | $\text{Ca}_5\text{Mn}(\text{Si}_3\text{O}_9)_2$                                                                              | A   | 2018-007  | Russia                 | <i>Geology of Ore Deposits</i> <b>61</b> (2019), 656                                  |                                                                   |
| Dalnegroite                      | $\text{Ti}_4\text{Pb}_2(\text{As},\text{Sb})_{20}\text{S}_{34}$                                                              | A   | 2009-058  | Switzerland            | <i>Mineralogical Magazine</i> <b>73</b> (2009), 1027                                  | <i>Mineralogical Magazine</i> <b>74</b> (2010), 999               |
| Dalyite                          | $\text{K}_2\text{ZrSi}_6\text{O}_{15}$                                                                                       | G   | 1952      | United Kingdom         | <i>Mineralogical Magazine</i> <b>29</b> (1952), 850                                   | <i>American Mineralogist</i> <b>110</b> (2026), 158               |
| Damaraitite                      | $\text{Pb}_3\text{O}_2(\text{OH})\text{Cl}$                                                                                  | A   | 1989-013  | Namibia                | <i>Mineralogical Magazine</i> <b>54</b> (1990), 593                                   | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (2001), 326     |
| Damiaoite                        | $\text{PtIn}_2$                                                                                                              | A   | 1995-041  | China                  | <i>Acta Geologica Sinica</i> <b>71</b> (1997), 328                                    |                                                                   |
| Danalite                         | $\text{Be}_3\text{Fe}^{2+}_4(\text{SiO}_4)_3\text{S}$                                                                        | G   | 1866      | USA                    | <i>American Journal of Science and Arts</i> <b>92</b> (1866), 73                      | <i>Canadian Mineralogist</i> <b>41</b> (2003), 1413               |
| Danbaite                         | $\text{CuZn}_2$                                                                                                              | A   | 1981-041  | China                  | <i>Kexue Tongbao</i> <b>22</b> (1983), 1383                                           |                                                                   |
| Danburite                        | $\text{CaB}_2\text{Si}_2\text{O}_8$                                                                                          | G   | 1839      | USA                    | <i>American Journal of Science and Arts</i> <b>35</b> (1839), 137                     | <i>IUCrJ</i> <b>4</b> (2017), 671                                 |
| Danielsite                       | $(\text{Cu},\text{Ag})_{14}\text{HgS}_8$                                                                                     | A   | 1984-044  | Australia              | <i>American Mineralogist</i> <b>72</b> (1987), 401                                    | <i>American Mineralogist</i> <b>73</b> (1988), 187                |
| D'ansite                         | $\text{Na}_{21}\text{Mg}(\text{SO}_4)_{10}\text{Cl}_3$                                                                       | Rn  | 2007 s.p. | Austria                | <i>Naturwissenschaften</i> <b>45</b> (1958), 362                                      | <i>Kexue Tongbao</i> <b>32</b> (1987), 478                        |
| D'ansite-(Fe)                    | $\text{Na}_{21}\text{Fe}(\text{SO}_4)_{10}\text{Cl}_3$                                                                       | A   | 2011-065  | Italy                  | <i>Mineralogical Magazine</i> <b>76</b> (2012), 2773                                  |                                                                   |
| D'ansite-(Mn)                    | $\text{Na}_{21}\text{Mn}(\text{SO}_4)_{10}\text{Cl}_3$                                                                       | A   | 2011-064  | Italy                  | <i>Mineralogical Magazine</i> <b>76</b> (2012), 2773                                  |                                                                   |
| Dantopaite                       | $\text{Ag}_5\text{Bi}_{13}\text{S}_{22}$                                                                                     | A   | 2008-058  | Austria                | <i>Canadian Mineralogist</i> <b>48</b> (2010), 467                                    | <i>Mineralogical Magazine</i> <b>88</b> (2024), 40                |
| Daomanite                        | $\text{CuPtAsS}_2$                                                                                                           | A ? | ?         | China                  | <i>Acta Geologica Sinica</i> <b>4</b> (1978), 320                                     | <i>Acta Geologica Sinica</i> <b>89</b> (2015), 1865               |
| Daqingshanite-(Ce)               | $\text{Sr}_3\text{Ce}(\text{PO}_4)(\text{CO}_3)_3$                                                                           | Rn  | 1987 s.p. | China                  | <i>Geochemistry</i> <b>2</b> (1983), 180                                              | <i>Mineralogical Magazine</i> <b>88</b> (2024), 400               |
| Darapiosite                      | $\text{KNa}_2\text{Mn}_2(\text{Li}_2\text{ZnSi}_{12})\text{O}_{30}$                                                          | A   | 1974-056  | Tajikistan             | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>104</b> (1975), 583     | <i>Canadian Mineralogist</i> <b>37</b> (1999), 769                |
| Darapskite                       | $\text{Na}_3(\text{SO}_4)(\text{NO}_3)(\text{H}_2\text{O})$                                                                  | Rd  | 1967 s.p. | Chile                  | <i>Zeitschrift für Kristallographie</i> <b>19</b> (1891), 445                         | <i>American Mineralogist</i> <b>55</b> (1970), 1500               |
| Dargaite                         | $\text{BaCa}_{12}(\text{SiO}_4)_4(\text{SO}_4)_2\text{O}_3$                                                                  | A   | 2015-068  | Palestine              | <i>Mineralogical Magazine</i> <b>83</b> (2019), 81                                    |                                                                   |
| Darrellhenryite                  | $\text{Na}(\text{Al}_2\text{Li})\text{Al}_6(\text{Si}_6\text{O}_{18})(\text{BO}_3)_3(\text{OH})_3\text{O}$                   | A   | 2012-026  | Czech Republic         | <i>American Mineralogist</i> <b>98</b> (2013), 1886                                   |                                                                   |
| Dashkovaite                      | $\text{Mg}(\text{HCOO})_2(\text{H}_2\text{O})_2$                                                                             | A   | 2000-006  | Russia                 | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>129(6)</b> (2000), 49 |                                                                   |
| Datolite                         | $\text{CaB}(\text{SiO}_4)(\text{OH})$                                                                                        | G   | 1806      | Norway                 | <i>Neues Allgemeines Journal der Chemie</i> <b>6</b> (1806), 107                      | <i>American Mineralogist</i> <b>95</b> (2010), 1413               |
| Daubréeite                       | $\text{BiO}(\text{OH})$                                                                                                      | G   | 1876      | Bolivia                | <i>Comptes Rendus de l'Académie des Sciences de Paris</i> <b>82</b> (1876), 922       | <i>Mineralogical Magazine</i> <b>24</b> (1935), 49                |
| Daubréelite                      | $\text{FeCr}_2\text{S}_4$                                                                                                    | G   | 1876      | Mexico                 | <i>American Journal of Science and Arts</i> <b>12</b> (1876), 107                     | <i>Arkiv för Mineralogi och Geologi</i> <b>17B(12)</b> (1943), 31 |
| Davanite                         | $\text{K}_2\text{TiSi}_6\text{O}_{15}$                                                                                       | A   | 1982-100  | Russia                 | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>113</b> (1984), 95      |                                                                   |
| Davemaoite                       | $\text{CaSiO}_3$                                                                                                             | A   | 2020-012a | Botswana               | <i>Science</i> <b>374</b> (2021), 891                                                 | <i>American Mineralogist</i> <b>109</b> (2024), 1861              |
| Davidbrownite-(NH <sub>4</sub> ) | $(\text{NH}_4)_5(\text{V}^{4+}\text{O})_2(\text{C}_2\text{O}_4)[\text{PO}_{2.75}(\text{OH})_{1.25}]_4(\text{H}_2\text{O})_3$ | A   | 2018-129  | USA                    | <i>Mineralogical Magazine</i> <b>83</b> (2019), 869                                   |                                                                   |

|                    |                                                                                                                                                                                                                                       |    |           |                                  |                                                                                                                            |                                                                                                        |
|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----------|----------------------------------|----------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|
| Davidite-(Ce)      | Ce(Y,U)Fe <sub>2</sub> (Ti,Fe,Cr,V) <sub>18</sub> (O,OH,F) <sub>38</sub>                                                                                                                                                              | Rn | 1966 s.p. | Norway                           | Norsk Geologisk Tidsskrift <b>40</b> (1960), 277                                                                           | Bulletin de liaison de la Société Française de Minéralogie et de Cristallographie <b>16</b> (2004), 76 |
| Davidite-(La)      | La(Y,U)Fe <sub>2</sub> (Ti,Fe,Cr,V) <sub>18</sub> (O,OH,F) <sub>38</sub>                                                                                                                                                              | Rn | 1987 s.p. | Australia                        | Transactions of the Royal Society of South Australia <b>30</b> (1906), 188                                                 | Physics and Chemistry of Minerals <b>51</b> (2024), 12                                                 |
| Davidlloydite      | Zn <sub>3</sub> (AsO <sub>4</sub> ) <sub>2</sub> (H <sub>2</sub> O) <sub>4</sub>                                                                                                                                                      | A  | 2011-053  | Namibia                          | Mineralogical Magazine <b>76</b> (2012), 45                                                                                |                                                                                                        |
| Davidsmithite      | (Ca,□) <sub>2</sub> Na <sub>6</sub> Al <sub>8</sub> Si <sub>8</sub> O <sub>32</sub>                                                                                                                                                   | A  | 2016-070  | Norway                           | European Journal of Mineralogy <b>29</b> (2017), 1005                                                                      |                                                                                                        |
| Davinciite         | Na <sub>12</sub> K <sub>3</sub> Ca <sub>6</sub> Fe <sup>2+</sup> <sub>3</sub> Zr <sub>3</sub> (Si <sub>26</sub> O <sub>73</sub> OH)Cl <sub>2</sub>                                                                                    | A  | 2011-019  | Russia                           | Zapiski Rossiyskogo Mineralogicheskogo Obshchestva <b>141(2)</b> (2012),10                                                 | Doklady Chemistry <b>424</b> (2009), 11                                                                |
| Davisite           | CaScAlSiO <sub>6</sub>                                                                                                                                                                                                                | A  | 2008-030  | Mexico (meteorite)               | American Mineralogist <b>94</b> (2009), 845                                                                                |                                                                                                        |
| Davreuxite         | Mn <sup>2+</sup> Al <sub>6</sub> Si <sub>4</sub> O <sub>17</sub> (OH) <sub>2</sub>                                                                                                                                                    | G  | 1878      | Belgium                          | Bulletin de l'Académie Royale de Belgique, Sér. II <b>46</b> (1878), 240                                                   | American Mineralogist <b>69</b> (1984), 783                                                            |
| Davyne             | [(Na,K) <sub>6</sub> (SO <sub>4</sub> ) <sub>0.5</sub> Cl][Ca <sub>2</sub> Cl <sub>2</sub> ][(Si <sub>6</sub> Al <sub>6</sub> O <sub>24</sub> )]                                                                                      | G  | 1825      | Italy                            | Prodromo della mineralogia vesuviana. Da' Torchi del Tramater, Napoli (1825)                                               | Crystallography Reports <b>54</b> (2009), 793                                                          |
| Dawsonite          | NaAl(CO <sub>3</sub> )(OH) <sub>2</sub>                                                                                                                                                                                               | G  | 1874      | Canada                           | Canadian Naturalist and Quarterly Journal of Science <b>7</b> (1874), 305                                                  | Canadian Mineralogist <b>9</b> (1967), 51                                                              |
| Deanesmithite      | Hg <sup>1+</sup> <sub>2</sub> Hg <sup>2+</sup> <sub>3</sub> S <sub>2</sub> O(CrO <sub>4</sub> )                                                                                                                                       | A  | 1991-001  | USA                              | Canadian Mineralogist <b>31</b> (1993), 787                                                                                | Canadian Mineralogist <b>35</b> (1997), 765                                                            |
| Debattistiite      | Ag <sub>9</sub> Hg <sub>0.5</sub> As <sub>6</sub> S <sub>12</sub> Te <sub>2</sub>                                                                                                                                                     | A  | 2011-098  | Switzerland                      | Mineralogical Magazine <b>76</b> (2012), 743                                                                               |                                                                                                        |
| Decagonite         | Al <sub>71</sub> Ni <sub>24</sub> Fe <sub>5</sub>                                                                                                                                                                                     | A  | 2015-017  | Russia (meteorite)               | American Mineralogist <b>100</b> (2015), 2340                                                                              | IUCrJ <b>8</b> (2021), 87                                                                              |
| Decrespignyite-(Y) | Y <sub>4</sub> Cu(CO <sub>3</sub> ) <sub>4</sub> Cl(OH) <sub>5</sub> (H <sub>2</sub> O) <sub>2</sub>                                                                                                                                  | A  | 2001-027  | Australia                        | Mineralogical Magazine <b>66</b> (2002), 181                                                                               | European Journal of Mineralogy <b>32</b> (2020), 545                                                   |
| Deerite            | Fe <sup>2+</sup> <sub>6</sub> Fe <sup>3+</sup> <sub>3</sub> (Si <sub>6</sub> O <sub>17</sub> )O <sub>3</sub> (OH) <sub>5</sub>                                                                                                        | A  | 1964-016  | USA                              | American Mineralogist <b>50</b> (1965), 278                                                                                | American Mineralogist <b>62</b> (1977), 990                                                            |
| Defernite          | Ca <sub>6</sub> (CO <sub>3</sub> ) <sub>1.58</sub> (Si <sub>2</sub> O <sub>7</sub> ) <sub>0.21</sub> (OH) <sub>7</sub> [Cl <sub>0.50</sub> (OH) <sub>0.08</sub> (H <sub>2</sub> O) <sub>0.42</sub> ]                                  | A  | 1978-057  | Turkey                           | Bulletin de Minéralogie <b>103</b> (1980), 185                                                                             | American Mineralogist <b>81</b> (1996), 625                                                            |
| Dekatriasartorite  | TiPb <sub>58</sub> As <sub>97</sub> S <sub>204</sub>                                                                                                                                                                                  | A  | 2017-071  | Switzerland                      | CNMNC Newsletter 40 - Mineralogical Magazine <b>81</b> (2017), 1577; European Journal of Mineralogy <b>29</b> (2017), 1083 |                                                                                                        |
| Delafossite        | Cu <sup>1+</sup> Fe <sup>3+</sup> O <sub>2</sub>                                                                                                                                                                                      | G  | 1873      | Russia                           | Comptes Rendus Hebdomadaires des Séances de l'Académie des Sciences <b>77</b> (1873), 211                                  | Inorganic Chemistry <b>59</b> (2020), 6790                                                             |
| Delchiaroite       | Cu <sub>3</sub> I(CH <sub>3</sub> S) <sub>2</sub>                                                                                                                                                                                     | A  | 2025-076  | Italy                            | European Journal of Mineralogy <b>38</b> (2026), 153                                                                       |                                                                                                        |
| Delhayelite        | K <sub>7</sub> Na <sub>3</sub> Ca <sub>5</sub> Al <sub>2</sub> Si <sub>14</sub> O <sub>38</sub> F <sub>4</sub> Cl <sub>2</sub>                                                                                                        | A  | 1962 s.p. | Democratic Republic of the Congo | Mineralogical Magazine <b>32</b> (1959), 6                                                                                 | Doklady Earth Sciences <b>428</b> (2009), 1216                                                         |
| Delhuyarite-(Ce)   | Ce <sub>4</sub> Mg(Fe <sup>3+</sup> <sub>2</sub> W)□(Si <sub>2</sub> O <sub>7</sub> ) <sub>2</sub> O <sub>6</sub> (OH) <sub>2</sub>                                                                                                   | A  | 2016-091  | Sweden                           | European Journal of Mineralogy <b>29</b> (2017), 897                                                                       |                                                                                                        |
| Deliensite         | Fe <sup>2+</sup> (UO <sub>2</sub> ) <sub>2</sub> (SO <sub>4</sub> ) <sub>2</sub> (OH) <sub>2</sub> (H <sub>2</sub> O) <sub>7</sub>                                                                                                    | A  | 1996-013  | France                           | Canadian Mineralogist <b>35</b> (1997), 1021                                                                               | Mineralogical Magazine <b>76</b> (2012), 2837                                                          |
| Delindeite         | Ba <sub>2</sub> Ti <sub>2</sub> (Na <sub>2</sub> □)Ti(Si <sub>2</sub> O <sub>7</sub> ) <sub>2</sub> (OH) <sub>2</sub> (H <sub>2</sub> O) <sub>2</sub> O <sub>2</sub>                                                                  | Rd | 1987-004  | USA                              | Mineralogical Magazine <b>51</b> (1987), 417                                                                               | Canadian Mineralogist <b>45</b> (2007), 1247                                                           |
| Dellagiustaite     | V <sup>2+</sup> Al <sub>2</sub> O <sub>4</sub>                                                                                                                                                                                        | A  | 2017-101  | Argentina                        | Minerals <b>9</b> (2019), 4                                                                                                |                                                                                                        |
| Dellaite           | Ca <sub>6</sub> (Si <sub>2</sub> O <sub>7</sub> )(SiO <sub>4</sub> )(OH) <sub>2</sub>                                                                                                                                                 | A  | 1964-005  | United Kingdom                   | Mineralogical Magazine <b>34</b> (1965), 1                                                                                 | Mineralogical Magazine <b>75</b> (2011), 379                                                           |
| Deloneite          | (Na <sub>0.5</sub> REE <sub>0.25</sub> Ca <sub>0.25</sub> )(Ca <sub>0.75</sub> REE <sub>0.25</sub> )Sr <sub>1.5</sub> (CaNa <sub>0.25</sub> REE <sub>0.25</sub> )(PO <sub>4</sub> ) <sub>3</sub> F <sub>0.5</sub> (OH) <sub>0.5</sub> | Rd | 1995-036  | Russia                           | Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva <b>125(5)</b> (1996), 83                                             | Doklady Akademii Nauk <b>349</b> (1996), 354                                                           |

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| Deloryite                       | $\text{Cu}_4(\text{UO}_2)\text{Mo}_2\text{O}_8(\text{OH})_6$                                                              | A  | 1990-037  | France                           | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1992), 58                                                                           | <i>Journal of Alloys and Compounds</i> <b>239</b> (1996), 23                            |
| Delrioite                       | $\text{Sr}(\text{VO}_3)_2(\text{H}_2\text{O})_4$                                                                          | Rd | 1962 s.p. | USA                              | <i>American Mineralogist</i> <b>44</b> (1959), 261                                                                                     | <i>American Mineralogist</i> <b>55</b> (1970), 185                                      |
| Deltalumite                     | $(\text{Al}_{0.67}\square_{0.33})\text{Al}_2\text{O}_4$                                                                   | A  | 2016-027  | Russia                           | <i>Zapiski Rossiyskogo Mineralogicheskogo Obshchestva</i> <b>148(5)</b> (2019), 45                                                     |                                                                                         |
| Deltanitrogen                   | N                                                                                                                         | A  | 2019-067b | Brazil                           | CNMNC Newsletter 69 - <i>Mineralogical Magazine</i> <b>86</b> (2022), 988; <i>European Journal of Mineralogy</i> <b>34</b> (2022), 463 |                                                                                         |
| Delvauxite                      | $\text{CaFe}^{3+}_4(\text{PO}_4)_2(\text{OH})_8 \cdot 4\text{-}5\text{H}_2\text{O}$                                       | Q  | 1838      | Belgium                          | <i>Bulletin de l'Académie Royale des Sciences de Belgique</i> <b>5</b> (1938), 296                                                     | <i>Tschermaks Mineralogische und Petrographische Mitteilungen</i> <b>26</b> (1979), 79  |
| Demagistrisite                  | $\text{BaCa}_2\text{Mn}^{3+}_4(\text{Si}_3\text{O}_{10})(\text{Si}_2\text{O}_7)(\text{OH})_4(\text{H}_2\text{O})_3$       | A  | 2018-059  | Italy                            | <i>Canadian Mineralogist</i> <b>59</b> (2021), 91                                                                                      |                                                                                         |
| Demartinite                     | $\text{K}_2\text{SiF}_6$                                                                                                  | A  | 2006-034  | Italy                            | <i>Canadian Mineralogist</i> <b>45</b> (2007), 1275                                                                                    |                                                                                         |
| Demesmaekerite                  | $\text{Pb}_2\text{Cu}_5(\text{UO}_2)_2(\text{Se}^{4+}\text{O}_3)_6(\text{OH})_6(\text{H}_2\text{O})_2$                    | A  | 1965-019  | Democratic Republic of the Congo | <i>Bulletin de la Société Française de Minéralogie et de Cristallographie</i> <b>88</b> (1965), 422                                    | <i>Journal of Geosciences</i> <b>65</b> (2020), 249                                     |
| Demicheleite-(Br)               | BiSBr                                                                                                                     | Rn | 2007-022  | Italy                            | <i>American Mineralogist</i> <b>93</b> (2008), 1603                                                                                    |                                                                                         |
| Demicheleite-(Cl)               | BiSCl                                                                                                                     | A  | 2008-020  | Italy                            | <i>American Mineralogist</i> <b>94</b> (2009), 1045                                                                                    |                                                                                         |
| Demicheleite-(I)                | BiSI                                                                                                                      | A  | 2009-049  | Italy                            | <i>Mineralogical Magazine</i> <b>74</b> (2010), 141                                                                                    |                                                                                         |
| Dendoraitite-(NH <sub>4</sub> ) | $(\text{NH}_4)_2\text{NaAl}(\text{C}_2\text{O}_4)(\text{PO}_3\text{OH})_2(\text{H}_2\text{O})_2$                          | A  | 2020-103  | USA                              | <i>Mineralogical Magazine</i> <b>86</b> (2022), 531                                                                                    |                                                                                         |
| Denisovite                      | $\text{KCa}_2\text{Si}_3\text{O}_8\text{F}$                                                                               | A  | 1982-031  | Russia                           | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>113</b> (1984), 718                                                      | <i>IUCrJ</i> <b>4</b> (2017), 223                                                       |
| Denningite                      | $\text{CaMn}^{2+}\text{Te}^{4+}_4\text{O}_{10}$                                                                           | A  | 1967 s.p. | Mexico                           | <i>Canadian Mineralogist</i> <b>7</b> (1963), 443                                                                                      | <i>Tschermaks Mineralogische und Petrographische Mitteilungen</i> <b>10</b> (1965), 241 |
| Depmeierite                     | $\text{Na}_8[\text{Al}_6\text{Si}_6\text{O}_{24}](\text{PO}_4)_1\text{-}_x \cdot 3\text{H}_2\text{O}$ ( $x < 0.5$ )       | A  | 2009-075  | Russia                           | <i>Geology of Ore Deposits</i> <b>53</b> (2011), 604                                                                                   |                                                                                         |
| Derbylite                       | $\text{Fe}^{3+}_4\text{Ti}^{4+}_3\text{Sb}^{3+}\text{O}_{13}(\text{OH})$                                                  | G  | 1897      | Brazil                           | <i>Mineralogical Magazine</i> <b>11</b> (1897), 176                                                                                    | <i>Mineralogical Magazine</i> <b>84</b> (2020), 766                                     |
| Derriksite                      | $\text{Cu}_4(\text{UO}_2)(\text{Se}^{4+}\text{O}_3)_2(\text{OH})_6$                                                       | A  | 1971-033  | Democratic Republic of the Congo | <i>Bulletin de la Société Française de Minéralogie et de Cristallographie</i> <b>94</b> (1971), 534                                    | <i>Crystals</i> <b>12</b> (2022), 1503                                                  |
| Dervillite                      | $\text{Ag}_2\text{AsS}_2$                                                                                                 | Rd | 1983 s.p. | France                           | <i>Revue des Sciences Naturelles d'Auvergne</i> <b>7</b> (1941), 110                                                                   | <i>Mineralogical Magazine</i> <b>89</b> (2025), 257                                     |
| Desautelsite                    | $\text{Mg}_6\text{Mn}^{3+}_2(\text{OH})_{16}(\text{CO}_3) \cdot 4\text{H}_2\text{O}$                                      | A  | 1978-016  | USA                              | <i>American Mineralogist</i> <b>64</b> (1979), 127                                                                                     | <i>Symmetry</i> <b>15</b> (2023), 1029                                                  |
| Descloizite                     | $\text{PbZn}(\text{VO}_4)(\text{OH})$                                                                                     | G  | 1854      | Argentina                        | <i>Annales de Chimie et de Physique</i> <b>41</b> (1854), 72                                                                           | <i>Acta Crystallographica</i> <b>B35</b> (1979), 717                                    |
| Désorite                        | $\text{Pb}_2(\text{Fe}^{3+}_6\text{Zn})\text{O}_2(\text{PO}_4)_4(\text{OH})_8$                                            | A  | 2023-087  | Germany                          | <i>Minerals</i> <b>14</b> (2024), 175                                                                                                  |                                                                                         |
| Despujolsite                    | $\text{Ca}_3\text{Mn}^{4+}(\text{SO}_4)_2(\text{OH})_6(\text{H}_2\text{O})_3$                                             | A  | 1967-039  | Morocco                          | <i>Bulletin de la Société Française de Minéralogie et de Cristallographie</i> <b>91</b> (1968), 43                                     | <i>Acta Crystallographica</i> <b>E67</b> (2011), i47                                    |
| Dessauite-(Y)                   | $\text{Sr}(\text{Y},\text{U},\text{Mn})\text{Fe}_2(\text{Ti},\text{Fe},\text{Cr},\text{V})_{18}(\text{O},\text{OH})_{38}$ | A  | 1994-057  | Italy                            | <i>American Mineralogist</i> <b>82</b> (1997), 807                                                                                     |                                                                                         |
| Destinezite                     | $\text{Fe}^{3+}_2(\text{PO}_4)(\text{SO}_4)(\text{OH})(\text{H}_2\text{O})_5 \cdot \text{H}_2\text{O}$                    | Rd | 2000 s.p. | Belgium                          | <i>Bulletin de la Société Belge de Géologie</i> <b>7</b> (1881), 117                                                                   | <i>Clays and Clay Minerals</i> <b>47</b> (1999), 1                                      |
| Deveroite-(Ce)                  | $\text{Ce}_2(\text{C}_2\text{O}_4)_3 \cdot 10\text{H}_2\text{O}$                                                          | A  | 2013-003  | Italy                            | <i>Mineralogical Magazine</i> <b>77</b> (2013), 3019                                                                                   |                                                                                         |
| Devilliersite                   | $\text{Ca}_4\text{Ca}_2\text{Fe}^{3+}_{10}\text{O}_4(\text{Fe}^{3+}_{10}\text{Si}_2)\text{O}_{36}$                        | A  | 2020-073  | Israel                           | CNMNC Newsletter 59 - <i>Mineralogical Magazine</i> <b>85</b> (2021), 278; <i>European Journal of Mineralogy</i> <b>33</b> (2021), 139 |                                                                                         |

|                      |                                                                                                                                                                           |    |           |                                  |                                                                                                                                        |                                                                 |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----------|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|
| Devilline            | $\text{CaCu}_4(\text{SO}_4)_2(\text{OH})_6(\text{H}_2\text{O})_3$                                                                                                         | A  | 1971 s.p. | United Kingdom                   | <i>Comptes Rendus Hebdomadaires des Séances de l'Académie des Sciences</i> <b>59</b> (1864), 813                                       | <i>Canadian Mineralogist</i> <b>53</b> (2015), 937              |
| Devitoite            | $\text{Ba}_6\text{Fe}^{2+}_7\text{Fe}^{3+}_2(\text{Si}_4\text{O}_{12})_2(\text{PO}_4)_2(\text{CO}_3)_2(\text{OH})_4$                                                      | A  | 2009-010  | USA                              | <i>Canadian Mineralogist</i> <b>48</b> (2010), 29                                                                                      |                                                                 |
| Dewindtite           | $\text{H}_2\text{Pb}_3(\text{UO}_2)_6\text{O}_4(\text{PO}_4)_4(\text{H}_2\text{O})_9 \cdot 3\text{H}_2\text{O}$                                                           | G  | 1922      | Democratic Republic of the Congo | <i>Comptes Rendus Hebdomadaires des Séances de l'Académie des Sciences</i> <b>174</b> (1922), 623                                      | <i>European Journal of Mineralogy</i> <b>2</b> (1990), 399      |
| Dewittite            | $\text{Ag}_z\text{Ti}_{10-x-z}\text{Pb}_{2x}\text{Sb}_{42-x-y}\text{As}_y\text{S}_{68}$ ( $0.09 \leq x \leq 2.13$ , $13.99 \leq y \leq 19.79$ , $0.10 \leq z \leq 0.50$ ) | A  | 2019-098  | France                           | CNMNC Newsletter 63 - <i>Mineralogical Magazine</i> <b>85</b> (2021), 910; <i>European Journal of Mineralogy</i> <b>33</b> (2021), 639 |                                                                 |
| Deynekoite           | $\text{Ca}_9\Box\text{Fe}^{3+}(\text{PO}_4)_7$                                                                                                                            | A  | 2021-108  | Jordan                           | <i>Mineralogical Magazine</i> <b>87</b> (2023), 943                                                                                    |                                                                 |
| Diaboleite           | $\text{CuPb}_2\text{Cl}_2(\text{OH})_4$                                                                                                                                   | Rn | 2007 s.p. | United Kingdom                   | <i>Mineralogical Magazine</i> <b>20</b> (1923), 67                                                                                     | <i>Canadian Mineralogist</i> <b>33</b> (1995), 1125             |
| Diadochite           | $\text{Fe}^{3+}_2(\text{PO}_4)(\text{SO}_4)(\text{OH})(\text{H}_2\text{O})_5 \cdot \text{H}_2\text{O}$                                                                    | G  | 1837      | Germany                          | <i>Journal für Praktische Chemie</i> <b>10</b> (1837), 503                                                                             | <i>Clays and Clay Minerals</i> <b>47</b> (1999), 1              |
| Diamond              | C                                                                                                                                                                         | G  | ?         | unknown                          | original paper?                                                                                                                        | <i>Canadian Mineralogist</i> <b>46</b> (2008), 1063             |
| Diaoyudaoite         | $\text{NaAl}_{11}\text{O}_{17}$                                                                                                                                           | A  | 1985-005  | Taiwan                           | <i>Kuangwu Xuebao (Acta Mineralogica Sinica)</i> <b>6</b> (1986), 224                                                                  | <i>Huaxue Xuebao</i> <b>50</b> (1992), 527                      |
| Diaphorite           | $\text{Ag}_3\text{Pb}_2\text{Sb}_3\text{S}_8$                                                                                                                             | G  | 1871      | Czech Republic / Germany         | <i>Sitzungsberichte der Kaiserlichen Akademie der Wissenschaften</i> <b>63</b> (1871), 130                                             | <i>European Journal of Mineralogy</i> <b>15</b> (2003), 137     |
| Diaspore             | $\text{AlO}(\text{OH})$                                                                                                                                                   | G  | 1801      | Russia                           | Traité de Minéralogie, Vol. 4. Chez Louis, Paris (1801), 358                                                                           | <i>Physics and Chemistry of Minerals</i> <b>45</b> (2018), 1003 |
| Dickinsonite-(KMnNa) | $\text{KNa}(\text{Mn}^{2+}\Box)(\text{CaNa}_3)\text{Mn}^{2+}_{13}\text{Al}(\text{PO}_4)_{12}(\text{OH})_2$                                                                | A  | 2005-048  | USA                              | <i>American Mineralogist</i> <b>91</b> (2006), 1260                                                                                    | <i>American Mineralogist</i> <b>91</b> (2006), 1249             |
| Dickite              | $\text{Al}_2\text{Si}_2\text{O}_5(\text{OH})_4$                                                                                                                           | G  | 1930      | United Kingdom                   | <i>American Mineralogist</i> <b>15</b> (1930), 34                                                                                      | <i>American Mineralogist</i> <b>103</b> (2018), 812             |
| Dickthomssenite      | $\text{MgV}_2\text{O}_6(\text{H}_2\text{O})_5 \cdot 2\text{H}_2\text{O}$                                                                                                  | A  | 2000-047  | USA                              | <i>Canadian Mineralogist</i> <b>39</b> (2001), 1691                                                                                    |                                                                 |
| Diegogattaite        | $\text{Na}_2\text{CaCu}_2\text{Si}_8\text{O}_{20}(\text{H}_2\text{O})$                                                                                                    | A  | 2012-096  | South Africa                     | <i>Mineralogical Magazine</i> <b>77</b> (2013), 3155                                                                                   | <i>Journal of Solid State Chemistry</i> <b>203</b> (2013), 260  |
| Dienerite            | $\text{Ni}_3\text{As}$                                                                                                                                                    | Rd | 2019 s.p. | USA                              | <i>Canadian Mineralogist</i> <b>59</b> (2021), 1887                                                                                    |                                                                 |
| Dietrichite          | $\text{ZnAl}_2(\text{SO}_4)_4(\text{H}_2\text{O})_{17} \cdot 5\text{H}_2\text{O}$                                                                                         | G  | 1878      | Romania                          | <i>Verhandlungen der Kaiserlich-Königlichen Geologischen Reichsanstalt</i> (1878), 189                                                 | <i>European Journal of Mineralogy</i> <b>15</b> (2003), 1043    |
| Dietzeite            | $\text{Ca}_2(\text{IO}_3)_2(\text{CrO}_4)(\text{H}_2\text{O})$                                                                                                            | G  | 1894      | Chile                            | <i>Zeitschrift für Kristallographie</i> <b>23</b> (1894), 588                                                                          | <i>Canadian Mineralogist</i> <b>31</b> (1993), 313              |
| Digenite             | $\text{Cu}_{1.8}\text{S}$                                                                                                                                                 | A  | 1962 s.p. | Germany                          | <i>Annalen der Physik und Chemie</i> <b>137</b> (1844), 671                                                                            | <i>European Journal of Mineralogy</i> <b>14</b> (2002), 591     |
| Dimorphite           | $\text{As}_4\text{S}_3$                                                                                                                                                   | G  | 1849      | Italy                            | Memorie Geologiche sulla Campania. Gabinetto Bibliografico e Tipografico, Napoli (1849), 83                                            | <i>Physics and Chemistry of Minerals</i> <b>40</b> (2013), 175  |
| Dingdaohengite-(Ce)  | $(\text{Ce}, \text{La})_4\text{Fe}^{2+}(\text{Ti}, \text{Fe}^{2+}, \text{Mg}, \text{Fe}^{3+})_2\text{Ti}_2(\text{Si}_2\text{O}_7)_2\text{O}_8$                            | A  | 2005-014  | China                            | <i>American Mineralogist</i> <b>93</b> (2008), 740                                                                                     | <i>Acta Mineralogica Sinica</i> <b>25</b> (2005), 313           |
| Dinilawiite          | $[\text{Pb}_4\text{OAl}(\text{OH})_6]_2(\text{S}_2\text{O}_3)_2 \cdot (\text{S}_2\text{O}_3)(\text{H}_2\text{O})_5$                                                       | A  | 2023-061  | USA                              | <i>Canadian Journal of Mineralogy and Petrology</i> <b>62</b> (2024), 871                                                              |                                                                 |
| Dinite               | $\text{C}_{20}\text{H}_{36}$                                                                                                                                              | G  | 1852      | Italy                            | <i>Gazzetta Medica Italiana, Toscana, Ser. II</i> <b>4</b> (1852), 233                                                                 | <i>European Journal of Mineralogy</i> <b>3</b> (1991), 855      |
| Diopside             | $\text{CaMgSi}_2\text{O}_6$                                                                                                                                               | A  | 1988 s.p. | Italy                            | <i>Journal de Mines</i> <b>20</b> (1806), 65                                                                                           | <i>American Mineralogist</i> <b>93</b> (2008), 177              |
| Diopase              | $\text{CuSiO}_3(\text{H}_2\text{O})$                                                                                                                                      | G  | 1798      | Kazakhstan                       | <i>Journal des Mines</i> <b>5</b> (1797), 274                                                                                          | <i>Physics and Chemistry of Minerals</i> <b>29</b> (2002), 430  |
| Dioskouriite         | $\text{CaCu}_4\text{Cl}_6(\text{OH})_4(\text{H}_2\text{O})_4$                                                                                                             | A  | 2015-106  | Russia                           | <i>Minerals</i> <b>11</b> (2021), 90                                                                                                   |                                                                 |
| Direnzoite           | $\text{NaK}_6\text{MgCa}_2(\text{Al}_{13}\text{Si}_{47})\text{O}_{120} \cdot 36\text{H}_2\text{O}$                                                                        | A  | 2006-044  | France                           | <i>American Mineralogist</i> <b>93</b> (2008), 95                                                                                      |                                                                 |

|                   |                                                                                                                                      |    |           |                          |                                                                                                     |                                                                                     |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------|----|-----------|--------------------------|-----------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Dissakisite-(Ce)  | $\text{CaCe}(\text{Al}_2\text{Mg})(\text{Si}_2\text{O}_7)(\text{SiO}_4)\text{O}(\text{OH})$                                          | A  | 1990-004  | Antarctica               | <i>American Mineralogist</i> <b>76</b> (1991), 1990                                                 | <i>Physics and Chemistry of Minerals</i> <b>35</b> (2008), 59                       |
| Dissakisite-(La)  | $\text{CaLa}(\text{Al}_2\text{Mg})(\text{Si}_2\text{O}_7)(\text{SiO}_4)\text{O}(\text{OH})$                                          | A  | 2003-007  | Italy                    | <i>American Mineralogist</i> <b>90</b> (2005), 1177                                                 | <i>American Mineralogist</i> <b>91</b> (2006), 104                                  |
| Disulfodadsonite  | $\text{Pb}_{11}\text{Sb}_{13}\text{S}_{30}(\text{S}_2)_{0.5}$                                                                        | A  | 2011-076  | Italy                    | <i>European Journal of Mineralogy</i> <b>25</b> (2013), 1005                                        |                                                                                     |
| Dittmarite        | $(\text{NH}_4)\text{Mg}(\text{PO}_4)(\text{H}_2\text{O})$                                                                            | G  | 1887      | Australia                | <i>Chemical News and Journal of Industrial Science</i> <b>55</b> (1887), 215                        |                                                                                     |
| Diversilite-(Ce)  | $\text{Na}_2\text{Ba}_6\text{Ce}_2\text{Fe}^{2+}\text{Ti}_3\text{Si}_{12}\text{O}_{36}(\text{OH})_{10} \cdot n\text{H}_2\text{O}$    | A  | 2002-043  | Russia                   | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>132(5)</b> (2003), 34               | <i>Zapiski Rossiyskogo Mineralogicheskogo Obshchestva</i> <b>134(1)</b> (2005), 113 |
| Dixenite          | $\text{Cu}^{1+}\text{Fe}^{3+}\text{Mn}^{2+}_{14}(\text{As}^{5+}\text{O}_4)(\text{As}^{3+}\text{O}_3)_5(\text{SiO}_4)_2(\text{OH})_6$ | G  | 1920      | Sweden                   | <i>Geologiska Föreningens i Stockholm Förhandlingar</i> <b>42</b> (1920), 436                       | <i>American Mineralogist</i> <b>106</b> (2021), 1580                                |
| Djerfisherite     | $\text{K}_6(\text{Fe,Cu,Ni})_{25}\text{S}_{26}\text{Cl}$                                                                             | A  | 1965-028  | South Africa (meteorite) | <i>Science</i> <b>153</b> (1966), 166                                                               | <i>Canadian Mineralogist</i> <b>45</b> (2007), 1201                                 |
| Djurleite         | $\text{Cu}_{31}\text{S}_{16}$                                                                                                        | A  | 1967 s.p. | Mexico                   | <i>American Mineralogist</i> <b>47</b> (1962), 1181                                                 | <i>Minerals</i> <b>11</b> (2021), 454                                               |
| Dmisokolovite     | $\text{K}_3\text{Cu}_5\text{AlO}_2(\text{AsO}_4)_4$                                                                                  | A  | 2013-079  | Russia                   | <i>Mineralogical Magazine</i> <b>79</b> (2015), 1737                                                |                                                                                     |
| Dmisteinbergite   | $\text{Ca}(\text{Al}_2\text{Si}_2\text{O}_8)$                                                                                        | A  | 1989-010  | Russia                   | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>119(5)</b> (1990), 43               | <i>American Mineralogist</i> <b>107</b> (2022), 2315                                |
| Dmitryivanovite   | $\text{CaAl}_2\text{O}_4$                                                                                                            | A  | 2006-035  | Morocco (meteorite)      | <i>American Mineralogist</i> <b>94</b> (2009), 746                                                  | <i>Materials Research Bulletin</i> <b>15</b> (1980), 925                            |
| Dmitryvarlamovite | $\text{Ti}_2(\text{Fe}^{3+}\text{Nb})\text{O}_8$                                                                                     | A  | 2022-125a | Russia                   | <i>Mineralogical Magazine</i> <b>88</b> (2024), 147                                                 |                                                                                     |
| Dobrovolskyite    | $\text{Na}_4\text{Ca}(\text{SO}_4)_3$                                                                                                | A  | 2019-106  | Russia                   | <i>Mineralogical Magazine</i> <b>85</b> (2021), 233                                                 | <i>Physics and Chemistry of Minerals</i> <b>50</b> (2023), 30                       |
| Dobšináite        | $\text{Ca}_2\text{Ca}(\text{AsO}_4)_2(\text{H}_2\text{O})_2$                                                                         | A  | 2020-081  | Slovakia                 | <i>Journal of Geosciences</i> <b>66</b> (2021), 127                                                 |                                                                                     |
| Dokuchaevite      | $\text{Cu}_8\text{O}_2(\text{VO}_4)_3\text{Cl}_3$                                                                                    | A  | 2018-012  | Russia                   | <i>Mineralogical Magazine</i> <b>83</b> (2019), 749                                                 |                                                                                     |
| Dolerophanite     | $\text{Cu}_2\text{O}(\text{SO}_4)$                                                                                                   | G  | 1873      | Italy                    | <i>Atti dell'Accademia delle Scienze Fisiche e Matematiche</i> <b>5</b> (1873), 22                  | <i>Physics and Chemistry of Minerals</i> <b>50</b> (2023), 11                       |
| Dollaseite-(Ce)   | $\text{CaCe}(\text{Mg}_2\text{Al})(\text{Si}_2\text{O}_7)(\text{SiO}_4)\text{F}(\text{OH})$                                          | Rd | 1987 s.p. | Sweden                   | <i>Sveriges Geologiska Undersökning</i> <b>20</b> (1927), 3                                         | <i>American Mineralogist</i> <b>73</b> (1988), 838                                  |
| Dolomite          | $\text{CaMg}(\text{CO}_3)_2$                                                                                                         | G  | 1792      | Italy                    | <i>Observations sur la Physique, sur l'Histoire Naturelle et sur les Arts</i> <b>40</b> (1792), 161 | <i>Canadian Mineralogist</i> <b>43</b> (2005), 1255                                 |
| Doloresite        | $\text{V}^{4+}_3\text{O}_4(\text{OH})_4$                                                                                             | G  | 1957      | USA                      | <i>American Mineralogist</i> <b>42</b> (1957), 587                                                  | <i>American Mineralogist</i> <b>45</b> (1960), 1144                                 |
| Domerockite       | $\text{Cu}_4(\text{AsO}_4)(\text{AsO}_3\text{OH})(\text{OH})_3(\text{H}_2\text{O})$                                                  | A  | 2009-016  | Australia                | <i>Mineralogical Magazine</i> <b>77</b> (2013), 509                                                 |                                                                                     |
| Domeykite         | $\text{Cu}_3\text{As}$                                                                                                               | G  | 1845      | Chile                    | <i>Handbuch der Bestimmenden Mineralogie</i> . Braumüller and Seidel, Wien (1845), 559              | <i>Zeitschrift für Kristallographie</i> <b>145</b> (1977), 334                      |
| Domitrovicite     | $\text{Zn}(\text{C}_2\text{H}_3\text{O}_3)_2(\text{H}_2\text{O})_2$                                                                  | A  | 2023-125  | USA                      | <i>Canadian Journal of Mineralogy and Petrology</i> <b>64</b> (2026), 275                           |                                                                                     |
| Donbassite        | $\text{Al}_2(\text{Si}_3\text{Al})\text{O}_{10}(\text{OH})_2 \cdot \text{Al}_{2.33}(\text{OH})_6$                                    | G  | 1940      | Ukraine                  | <i>Comptes Rendus de l'Academie des Sciences de Russie</i> <b>28</b> (1940), 519                    | <i>Clays and Clay Minerals</i> <b>37</b> (1989), 193                                |
| Dondoellite       | $\text{Ca}_2\text{Fe}(\text{PO}_4)_2(\text{H}_2\text{O})_2$                                                                          | A  | 2021-048  | Canada                   | <i>Canadian Mineralogist</i> <b>60</b> (2022), 837                                                  |                                                                                     |
| Dongchuanite      | $\text{Pb}_4\text{ZnZn}_2(\text{PO}_4)_4(\text{OH})_2$                                                                               | A  | 2021-058  | China                    | <i>Mineralogical Magazine</i> <b>87</b> (2023), 611                                                 |                                                                                     |
| Donharrisite      | $\text{Ni}_3\text{HgS}_3$                                                                                                            | A  | 1987-007  | Austria                  | <i>Canadian Mineralogist</i> <b>27</b> (1989), 257                                                  | <i>Journal of Alloys and Compounds</i> <b>682</b> (2016), 248                       |
| Donnayite-(Y)     | $\text{NaSr}_3\text{CaY}(\text{CO}_3)_6(\text{H}_2\text{O})_3$                                                                       | Rn | 1987 s.p. | Canada                   | <i>Canadian Mineralogist</i> <b>16</b> (1978), 335                                                  | <i>European Journal of Mineralogy</i> <b>35</b> (2023), 133                         |
| Donowensite       | $\text{Ca}(\text{H}_2\text{O})_3\text{Fe}^{3+}_2(\text{V}_2\text{O}_7)_2$                                                            | A  | 2020-067  | USA                      | <i>Canadian Mineralogist</i> <b>60</b> (2022), 543                                                  |                                                                                     |

|                |                                                                                                                                                                                   |   |          |                            |                                                                                                                                         |                                                                      |
|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|----------|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|
| Donpeacorite   | (Mn,Mg)MgSi <sub>2</sub> O <sub>6</sub>                                                                                                                                           | A | 1982-045 | USA                        | <i>American Mineralogist</i> <b>69</b> (1984), 472                                                                                      | <i>Mineralogical Magazine</i> <b>79</b> (2015), 71                   |
| Donwilhelmsite | CaAl <sub>4</sub> Si <sub>2</sub> O <sub>11</sub>                                                                                                                                 | A | 2018-113 | Western Sahara (meteorite) | <i>American Mineralogist</i> <b>105</b> (2020), 1704                                                                                    |                                                                      |
| Dorallcharite  | TiFe <sup>3+</sup> <sub>3</sub> (SO <sub>4</sub> ) <sub>2</sub> (OH) <sub>6</sub>                                                                                                 | A | 1992-041 | North Macedonia            | <i>European Journal of Mineralogy</i> <b>6</b> (1994), 255                                                                              |                                                                      |
| Dorfmanite     | Na <sub>2</sub> (PO <sub>3</sub> OH)(H <sub>2</sub> O) <sub>2</sub>                                                                                                               | A | 1979-053 | Russia                     | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>109</b> (1980), 211                                                       | <i>Acta Crystallographica</i> <b>B33</b> (1977), 3449                |
| Dorrite        | Ca <sub>4</sub> [Mg <sub>3</sub> Fe <sup>3+</sup> <sub>9</sub> ]O <sub>4</sub> [Si <sub>3</sub> Al <sub>8</sub> Fe <sup>3+</sup> O <sub>36</sub> ]                                | A | 1987-054 | USA                        | <i>American Mineralogist</i> <b>73</b> (1988), 1440                                                                                     | <i>Journal of Mineralogy and Geochemistry</i> <b>193</b> (2016), 275 |
| Douglasite     | K <sub>2</sub> Fe <sup>2+</sup> Cl <sub>4</sub> ·2H <sub>2</sub> O                                                                                                                | G | 1880     | Germany                    | <i>Berichte der Deutschen Chemischen Gesellschaft Berlin</i> <b>13</b> (1880), 2326                                                     |                                                                      |
| Dovyrenite     | Ca <sub>6</sub> Zr(Si <sub>2</sub> O <sub>7</sub> ) <sub>2</sub> (OH) <sub>4</sub>                                                                                                | A | 2007-002 | Russia                     | <i>Mineralogia Polonica</i> <b>38</b> (2007), 15                                                                                        | <i>American Mineralogist</i> <b>93</b> (2008), 456                   |
| Downeyite      | SeO <sub>2</sub>                                                                                                                                                                  | A | 1974-063 | USA                        | <i>American Mineralogist</i> <b>62</b> (1977), 316                                                                                      | <i>Zeitschrift für Kristallographie</i> <b>202</b> (1992), 99        |
| Downsite       | K <sub>2</sub> (MoO <sub>3</sub> ) <sub>3</sub> (SO <sub>4</sub> )(H <sub>2</sub> O) <sub>3</sub> ·H <sub>2</sub> O                                                               | A | 2022-119 | USA                        | CNMNC Newsletter 72 - <i>Mineralogical Magazine</i> <b>87</b> (2023), 512; <i>European Journal of Mineralogy</i> <b>35</b> (2023), 285  |                                                                      |
| Doyleite       | Al(OH) <sub>3</sub>                                                                                                                                                               | A | 1980-041 | Canada                     | <i>Canadian Mineralogist</i> <b>23</b> (1985), 21                                                                                       | <i>Zeitschrift für Kristallographie</i> <b>213</b> (1998), 96        |
| Dozyite        | Mg <sub>7</sub> Al <sub>2</sub> (Si <sub>4</sub> Al <sub>2</sub> )O <sub>15</sub> (OH) <sub>12</sub>                                                                              | A | 1993-042 | Indonesia                  | <i>American Mineralogist</i> <b>80</b> (1995), 65                                                                                       | <i>American Mineralogist</i> <b>81</b> (1996), 79                    |
| Dravertite     | CuMg(SO <sub>4</sub> ) <sub>2</sub>                                                                                                                                               | A | 2014-104 | Russia                     | <i>European Journal of Mineralogy</i> <b>29</b> (2017), 323                                                                             |                                                                      |
| Dravite        | NaMg <sub>3</sub> Al <sub>6</sub> (Si <sub>6</sub> O <sub>18</sub> )(BO <sub>3</sub> ) <sub>3</sub> (OH) <sub>3</sub> (OH)                                                        | G | 1884     | Slovenia                   | Lehrbuch der Mineralogie. Hölder, Wien (1884), 470                                                                                      | <i>American Mineralogist</i> <b>103</b> (2018), 1622                 |
| Drechslerite   | Tl <sub>4</sub> (Sb <sub>4-x</sub> As <sub>x</sub> )S <sub>8</sub> (1 < x < 2)                                                                                                    | A | 2019-061 | Switzerland                | CNMNC Newsletter 52 - <i>Mineralogical Magazine</i> <b>83</b> (2019), 887; <i>European Journal of Mineralogy</i> <b>32</b> (2020), 1    |                                                                      |
| Dresserite     | Ba <sub>2</sub> Al <sub>4</sub> (CO <sub>3</sub> ) <sub>4</sub> (OH) <sub>8</sub> ·3H <sub>2</sub> O                                                                              | A | 1968-027 | Canada                     | <i>Canadian Mineralogist</i> <b>10</b> (1969), 84                                                                                       |                                                                      |
| Dreyerite      | Bi(VO <sub>4</sub> )                                                                                                                                                              | A | 1978-077 | Germany                    | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1981), 151                                                                           |                                                                      |
| Driekopite     | PtBi                                                                                                                                                                              | A | 2022-058 | South Africa               | <i>Canadian Journal of Mineralogy and Petrology</i> <b>61</b> (2023), 537                                                               |                                                                      |
| Dritsite       | Li <sub>2</sub> Al <sub>4</sub> (OH) <sub>12</sub> Cl <sub>2</sub> ·3H <sub>2</sub> O                                                                                             | A | 2019-017 | Russia                     | <i>Minerals</i> <b>9</b> (2019), 492                                                                                                    |                                                                      |
| Drobecite      | Cd(SO <sub>4</sub> )(H <sub>2</sub> O) <sub>4</sub>                                                                                                                               | A | 2002-034 | Greece                     | 20th General Meeting of IMA. Budapest (2010), abstr.                                                                                    |                                                                      |
| Droninoite     | Ni <sub>6</sub> Fe <sup>3+</sup> <sub>2</sub> (OH) <sub>16</sub> Cl <sub>2</sub> ·4H <sub>2</sub> O                                                                               | A | 2008-003 | Russia (meteorite)         | <i>Zapiski Rossiyskogo Mineralogicheskogo Obshchestva</i> <b>137(6)</b> (2008), 38                                                      |                                                                      |
| Drugmanite     | Pb <sub>2</sub> Fe <sup>3+</sup> (PO <sub>4</sub> )(PO <sub>3</sub> OH)(OH) <sub>2</sub>                                                                                          | A | 1978-081 | Belgium                    | <i>Mineralogical Magazine</i> <b>43</b> (1979), 463                                                                                     | <i>Bulletin de Minéralogie</i> <b>111</b> (1988), 431                |
| Drysdallite    | MoSe <sub>2</sub>                                                                                                                                                                 | A | 1973-027 | Zambia                     | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1973), 433                                                                           |                                                                      |
| Dualite        | Na <sub>30</sub> (Ca,Na,Ce,Sr) <sub>12</sub> (Na,Mn,Fe,Ti) <sub>6</sub> Zr <sub>3</sub> Ti <sub>3</sub> MnSi <sub>51</sub> O <sub>144</sub> (OH,H <sub>2</sub> O,Cl) <sub>9</sub> | A | 2005-019 | Russia                     | <i>Zapiski Rossiyskogo Mineralogicheskogo Obshchestva</i> <b>136(4)</b> (2007), 31                                                      | <i>Zeitschrift für Kristallographie</i> <b>214</b> (1999) 271        |
| Dubińskaite    | Ca <sub>4</sub> Sc <sub>2</sub> Al <sub>4</sub> [Be <sub>2</sub> Si <sub>8</sub> O <sub>30</sub> ](OH) <sub>2</sub>                                                               | A | 2024-035 | Poland                     | CNMNC Newsletter 82 - <i>Mineralogical Magazine</i> <b>88</b> (2024), 804; <i>European Journal of Mineralogy</i> <b>36</b> (2024), 1005 |                                                                      |

|                   |                                                                                                                           |    |           |                                  |                                                                                                                                        |                                                                           |
|-------------------|---------------------------------------------------------------------------------------------------------------------------|----|-----------|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|
| Dufrénite         | $\text{Ca}_{0.5}\text{Fe}^{2+}\text{Fe}^{3+}_5(\text{PO}_4)_4(\text{OH})_6(\text{H}_2\text{O})_2$                         | G  | 1833      | Germany                          | Tableau des espèces minérales. Librairie Encyclopédique De Roret, Paris (1833), 20                                                     | <i>Mineralogical Magazine</i> <b>54</b> (1990), 419                       |
| Dufrénoysite      | $\text{Pb}_2\text{As}_2\text{S}_5$                                                                                        | G  | 1845      | Switzerland                      | <i>Annales de Chimie et de Physique</i> <b>14</b> (1845), 379                                                                          | <i>Zeitschrift für Kristallographie</i> <b>130</b> (1969), 15             |
| Duftite           | $\text{PbCu}(\text{AsO}_4)(\text{OH})$                                                                                    | G  | 1920      | Namibia                          | <i>Centralblatt für Mineralogie, Geologie und Paläontologie</i> (1920), 289                                                            | <i>Neues Jahrbuch für Mineralogie Abhandlungen</i> <b>194</b> (2017), 157 |
| Dugganite         | $\text{Pb}_3\text{Zn}_3(\text{TeO}_6)(\text{AsO}_4)_2$                                                                    | A  | 1978-034  | USA                              | <i>American Mineralogist</i> <b>63</b> (1978), 1016                                                                                    | <i>Canadian Mineralogist</i> <b>36</b> (1998), 823                        |
| Dukeite           | $\text{Bi}^{3+}_{24}\text{Cr}^{6+}_8\text{O}_{57}(\text{OH})_6 \cdot 3\text{H}_2\text{O}$                                 | A  | 1999-021  | Brazil                           | <i>American Mineralogist</i> <b>85</b> (2000), 1822                                                                                    |                                                                           |
| Dulanggouite      | $\text{Bi}_6\text{Te}_3$                                                                                                  | A  | 2024-067  | China                            | CNMNC Newsletter 83 - <i>Mineralogical Magazine</i> <b>89</b> (2025), 185; <i>European Journal of Mineralogy</i> <b>37</b> (2025), 75  |                                                                           |
| Dumontite         | $\text{Pb}_2(\text{UO}_2)_3\text{O}_2(\text{PO}_4)_2 \cdot 5\text{H}_2\text{O}$                                           | G  | 1924      | Democratic Republic of the Congo | <i>Comptes Rendus Hebdomadaires des Séances de l'Académie des Sciences</i> <b>179</b> (1924), 693                                      | <i>Bulletin de Minéralogie</i> <b>111</b> (1988), 439                     |
| Dumortierite      | $\text{AlAl}_6\text{BSi}_3\text{O}_{18}$                                                                                  | Rd | 2013 s.p. | France                           | <i>Bulletin de la Société Minéralogique de France</i> <b>4</b> (1881), 2                                                               | <i>Canadian Mineralogist</i> <b>50</b> (2012), 855                        |
| Dundasite         | $\text{PbAl}_2(\text{CO}_3)_2(\text{OH})_4 \cdot \text{H}_2\text{O}$                                                      | G  | 1894      | Australia                        | Papers and Proceedings of the Royal Society of Tasmania for 1893. The Mercury, Hobart (1984), 26                                       | <i>Mineralogical Magazine</i> <b>38</b> (1972), 564                       |
| Durangite         | $\text{NaAl}(\text{AsO}_4)\text{F}$                                                                                       | G  | 1869      | Mexico                           | <i>American Journal of Science and Arts</i> <b>98</b> (1869), 179                                                                      | <i>Acta Crystallographica</i> <b>E68</b> (2012), i86                      |
| Duranusite        | $\text{As}_4\text{S}$                                                                                                     | A  | 1973-003  | France                           | <i>Bulletin de la Société Française de Minéralogie et de Cristallographie</i> <b>96</b> (1973), 131                                    | <i>European Journal of Mineralogy</i> <b>28</b> (2016), 147               |
| Dusmatovite       | $\text{KK}_2\text{Mn}_2(\text{Zn}_2\text{LiSi}_{12})\text{O}_{30}$                                                        | A  | 1994-010  | Tajikistan                       | <i>Vestnik Moskovskogo Universiteta, Geologiya Seriya</i> <b>4</b> (1996), 54                                                          | <i>Doklady Akademii Nauk</i> <b>344</b> (1995), 607                       |
| Dussertite        | $\text{BaFe}^{3+}_3(\text{AsO}_4)(\text{AsO}_3\text{OH})(\text{OH})_6$                                                    | Rd | 1999 s.p. | Algeria                          | <i>Comptes Rendus de l'Académie des Sciences de Paris</i> <b>180</b> (1925), 299                                                       | <i>Mineralogical Magazine</i> <b>63</b> (1999), 17                        |
| Dutkevichite-(Ce) | $\text{NaZnBa}_2\text{Ce}_2\text{Ti}_2\text{Si}_8\text{O}_{26}\text{F}(\text{H}_2\text{O})$                               | A  | 2019-102  | Tajikistan                       | CNMNC Newsletter 54 - <i>Mineralogical Magazine</i> <b>84</b> (2020), 355; <i>European Journal of Mineralogy</i> <b>32</b> (2020), 275 |                                                                           |
| Dutrowite         | $\text{Na}(\text{Fe}^{2+}_{2.5}\text{Ti}_{0.5})\text{Al}_6(\text{Si}_6\text{O}_{18})(\text{BO}_3)_3(\text{OH})_3\text{O}$ | A  | 2019-082  | Italy                            | <i>European Journal of Mineralogy</i> <b>35</b> (2023), 81                                                                             |                                                                           |
| Duttonite         | $\text{V}^{4+}\text{O}(\text{OH})_2$                                                                                      | G  | 1957      | USA                              | <i>American Mineralogist</i> <b>42</b> (1957), 455                                                                                     | <i>Acta Crystallographica</i> <b>11</b> (1958), 56                        |
| Dwornikite        | $\text{Ni}(\text{SO}_4)(\text{H}_2\text{O})$                                                                              | A  | 1981-031  | Peru                             | <i>Mineralogical Magazine</i> <b>46</b> (1982), 351                                                                                    | <i>American Mineralogist</i> <b>105</b> (2020), 1472                      |
| Dymkovite         | $\text{Ni}(\text{UO}_2)_2(\text{As}^{3+}\text{O}_3)_2(\text{H}_2\text{O})_4 \cdot 3\text{H}_2\text{O}$                    | A  | 2010-087  | Russia                           | <i>European Journal of Mineralogy</i> <b>24</b> (2012), 923                                                                            |                                                                           |
| Dypingite         | $\text{Mg}_5(\text{CO}_3)_4(\text{OH})_2 \cdot 5\text{H}_2\text{O}$                                                       | A  | 1970-011  | Norway                           | <i>American Mineralogist</i> <b>55</b> (1970), 1457                                                                                    | <i>American Mineralogist</i> <b>111</b> (2026), 746                       |
| Dyrnaesite-(La)   | $\text{Na}_8\text{Ce}^{4+}(\text{La}, \text{REE})_2(\text{PO}_4)_6$                                                       | A  | 2014-070  | Denmark (Greenland)              | <i>Mineralogical Magazine</i> <b>81</b> (2017), 103                                                                                    | <i>Mineralogical Magazine</i> <b>81</b> (2017), 199                       |
| Dyscrasite        | $\text{Ag}_{3+x}\text{Sb}_{1-x}$ ( $x \approx 0.2$ )                                                                      | G  | 1832      | Germany                          | Traité Élémentaire de Minéralogie, 2nd ed. Verdière, Paris (1832), 613                                                                 | <i>Canadian Mineralogist</i> <b>14</b> (1976), 139                        |
| Dzhalindite       | $\text{In}(\text{OH})_3$                                                                                                  | A  | 1967 s.p. | Russia                           | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>92</b> (1963), 445                                                       | <i>Journal of Inorganic and Nuclear Chemistry</i> <b>41</b> (1979), 277   |
| Dzharkenite       | $\text{FeSe}_2$                                                                                                           | A  | 1993-054  | Kazakhstan                       | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>124(1)</b> (1995), 85                                                  |                                                                           |

|                 |                                                                                                   |    |           |                       |                                                                                                            |                                                                                             |
|-----------------|---------------------------------------------------------------------------------------------------|----|-----------|-----------------------|------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| Dzhuluite       | $\text{Ca}_3(\text{SbSn})(\text{Fe}^{3+}\text{O}_4)_3$                                            | Rn | 2010-064  | Russia                | <i>European Journal of Mineralogy</i> <b>25</b> (2013), 231                                                |                                                                                             |
| Dzierżanowskite | $\text{CaCu}_2\text{S}_2$                                                                         | A  | 2014-032  | Palestine             | <i>Mineralogical Magazine</i> <b>81</b> (2017), 1073                                                       |                                                                                             |
| Eakerite        | $\text{Ca}_2\text{Sn}^{4+}\text{Al}_2\text{Si}_6\text{O}_{18}(\text{OH})_2(\text{H}_2\text{O})_2$ | A  | 1969-019  | USA                   | <i>Mineralogical Record</i> <b>1</b> (1970), 92                                                            | <i>Acta Crystallographica</i> <b>E63</b> (2007), i47                                        |
| Earlandite      | $\text{Ca}_3(\text{C}_6\text{H}_5\text{O}_7)_2(\text{H}_2\text{O})_2 \cdot 2\text{H}_2\text{O}$   | G  | 1936      | Antarctica            | <i>Discovery Reports</i> <b>13</b> (1936), 67                                                              | <i>Zeitschrift für Anorganische und Allgemeine Chemie</i> <b>637</b> (2011), 655            |
| Earlshannonite  | $\text{Mn}^{2+}\text{Fe}^{3+}_2(\text{PO}_4)_2(\text{OH})_2(\text{H}_2\text{O})_4$                | A  | 1983-010  | USA                   | <i>Canadian Mineralogist</i> <b>22</b> (1984), 471                                                         | <i>European Journal of Mineralogy</i> <b>30</b> (2018), 1007                                |
| Eastonite       | $\text{KAlMg}_2(\text{Si}_2\text{Al}_2)\text{O}_{10}(\text{OH})_2$                                | Rd | 1998 s.p. | USA                   | <i>American Journal of Science</i> <b>9</b> (1925), 309                                                    | <i>American Mineralogist</i> <b>72</b> (1987), 113                                          |
| Ebnerite        | $(\text{NH}_4)\text{Zn}(\text{PO}_4)$                                                             | A  | 2022-123  | USA                   | <i>Mineralogical Magazine</i> <b>88</b> (2024), 312                                                        |                                                                                             |
| Ecandrewsite    | $\text{ZnTiO}_3$                                                                                  | A  | 1978-082  | Australia             | <i>Mineralogical Magazine</i> <b>52</b> (1988), 237                                                        | <i>Acta Crystallographica</i> <b>B60</b> (2004), 496                                        |
| Ecdemite        | $\text{Pb}_6\text{As}^{3+}_2\text{O}_7\text{Cl}_4$                                                | G  | 1877      | Sweden                | <i>Geologiska Föreningens i Stockholm Förhandlingar</i> <b>3</b> (1877), 379                               | <i>European Journal of Mineralogy</i> <b>31</b> (2019), 609                                 |
| Eckerite        | $\text{Ag}_2\text{CuAsS}_3$                                                                       | A  | 2014-063  | Switzerland           | <i>Mineralogical Magazine</i> <b>79</b> (2015), 687                                                        |                                                                                             |
| Eckermannite    | $\text{NaNa}_2(\text{Mg}_4\text{Al})\text{Si}_8\text{O}_{22}(\text{OH})_2$                        | A  | 2013-136  | Myanmar               | <i>American Mineralogist</i> <b>100</b> (2015), 909                                                        |                                                                                             |
| Eckhardtite     | $\text{CaCu}^{2+}\text{Te}^{6+}\text{O}_5(\text{H}_2\text{O})$                                    | A  | 2012-085  | USA                   | <i>American Mineralogist</i> <b>98</b> (2013), 1617                                                        |                                                                                             |
| Eclarite        | $(\text{Cu,Fe})\text{Pb}_9\text{Bi}_{12}\text{S}_{28}$                                            | A  | 1982-092  | Austria               | <i>Tschermaks Mineralogische und Petrographische Mitteilungen</i> <b>32</b> (1983), 103                    | <i>Canadian Mineralogist</i> <b>50</b> (2012), 371                                          |
| Écrinsite       | $\text{AgTi}_3\text{Pb}_4\text{As}_{11}\text{Sb}_9\text{S}_{36}$                                  | A  | 2015-099  | France                | <i>European Journal of Mineralogy</i> <b>29</b> (2017), 689                                                |                                                                                             |
| Eddavidite      | $\text{Pb}_2\text{Cu}_{12}\text{O}_{15}\text{Br}_2$                                               | A  | 2018-010  | USA                   | <i>Minerals</i> <b>14</b> (2024), 307                                                                      |                                                                                             |
| Edenharterite   | $\text{TiPbAs}_3\text{S}_6$                                                                       | A  | 1987-026  | Switzerland           | <i>European Journal of Mineralogy</i> <b>4</b> (1992), 1265                                                | <i>Schweizerische Mineralogische und Petrographische Mitteilungen</i> <b>76</b> (1996), 147 |
| Edenite         | $\text{NaCa}_2\text{Mg}_5(\text{Si}_7\text{Al})\text{O}_{22}(\text{OH})_2$                        | Rd | 2012 s.p. | USA                   | Grundriss der Mineralogie, mit Einschluss der Geognosie und Petrefactenkunde. Schrag, Nurnberg (1839), 410 | <i>Mineralogical Magazine</i> <b>71</b> (2007), 651                                         |
| Edgarbaileyite  | $\text{Hg}^{1+}_6\text{Si}_2\text{O}_7$                                                           | A  | 1988-028  | USA                   | <i>Mineralogical Record</i> <b>21</b> (1990), 215                                                          | <i>American Mineralogist</i> <b>75</b> (1990), 1192                                         |
| Edgarite        | $\text{FeNb}_3\text{S}_6$                                                                         | A  | 1995-017  | Russia                | <i>Contributions to Mineralogy and Petrology</i> <b>138</b> (2000), 229                                    | <i>Canadian Mineralogist</i> <b>56</b> (2018), 259                                          |
| Edgrewite       | $\text{Ca}_9(\text{SiO}_4)_4\text{F}_2$                                                           | A  | 2011-058  | Russia                | <i>American Mineralogist</i> <b>97</b> (2012), 1998                                                        |                                                                                             |
| Edingtonite     | $\text{Ba}(\text{Si}_3\text{Al}_2)\text{O}_{10} \cdot 4\text{H}_2\text{O}$                        | G  | 1825      | United Kingdom        | <i>Edinburgh Journal of Science</i> <b>3</b> (1825), 316                                                   | <i>Physics and Chemistry of Minerals</i> <b>31</b> (2004), 288                              |
| Edoylerite      | $\text{Hg}^{2+}_3(\text{Cr}^{6+}\text{O}_4)\text{S}_2$                                            | A  | 1987-008  | USA                   | <i>Mineralogical Record</i> <b>24</b> (1993), 471                                                          | <i>Canadian Mineralogist</i> <b>37</b> (1999), 113                                          |
| Edscottite      | $\text{Fe}_5\text{C}_2$                                                                           | A  | 2018-086a | Australia (meteorite) | <i>American Mineralogist</i> <b>104</b> (2019), 1351                                                       |                                                                                             |
| Edtollite       | $\text{K}_2\text{NaCu}_5\text{Fe}^{3+}\text{O}_2(\text{AsO}_4)_4$                                 | A  | 2016-010  | Russia                | <i>Mineralogical Magazine</i> <b>83</b> (2019), 485                                                        |                                                                                             |
| Edwardsite      | $\text{Cu}_3\text{Cd}_2(\text{SO}_4)_2(\text{OH})_6(\text{H}_2\text{O})_4$                        | A  | 2009-048  | Australia             | <i>Mineralogical Magazine</i> <b>74</b> (2010), 39                                                         |                                                                                             |
| Edwindavisite   | $\text{Cu}(\text{C}_2\text{O}_4)(\text{NH}_3)$                                                    | A  | 2023-056  | USA                   | <i>Mineralogical Magazine</i> <b>89</b> (2025), 535                                                        |                                                                                             |
| Effenbergerite  | $\text{BaCuSi}_4\text{O}_{10}$                                                                    | A  | 1993-036  | South Africa          | <i>Mineralogical Magazine</i> <b>58</b> (1994), 663                                                        | <i>European Journal of Mineralogy</i> <b>22</b> (2010), 411                                 |
| Efremovite      | $(\text{NH}_4)_2\text{Mg}_2(\text{SO}_4)_3$                                                       | A  | 1987-033a | Russia                | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>118(3)</b> (1989), 84                      |                                                                                             |

|                 |                                                                                                                                       |    |           |                     |                                                                                                                                          |                                                                |
|-----------------|---------------------------------------------------------------------------------------------------------------------------------------|----|-----------|---------------------|------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|
| Eggletonite     | $\text{Na}_x\text{Mn}^{2+}_6(\text{Si},\text{Al})_{10}\text{O}_{24}(\text{OH})_4(\text{H}_2\text{O})_n$<br>( $x = 1-2$ ; $n = 7-11$ ) | A  | 1982-059  | USA                 | <i>Mineralogical Magazine</i> <b>48</b> (1984), 93                                                                                       |                                                                |
| Eglestonite     | $([\text{Hg}^{1+}]_2)_3\text{OCl}_3(\text{OH})$                                                                                       | G  | 1904      | USA                 | <i>Zeitschrift für Kristallographie</i> <b>39</b> (1904), 3                                                                              | <i>American Mineralogist</i> <b>77</b> (1992), 839             |
| Ehrigite        | $\text{Bi}_8\text{Te}_3$                                                                                                              | A  | 2023-074  | Canada              | <i>Canadian Journal of Mineralogy and Petrology</i> <b>62</b> (2024), 847                                                                |                                                                |
| Ehrleite        | $\text{Ca}_2\text{ZnBe}(\text{PO}_4)_2(\text{PO}_3\text{OH})(\text{H}_2\text{O})_4$                                                   | A  | 1983-039  | USA                 | <i>Canadian Mineralogist</i> <b>23</b> (1985), 507                                                                                       | <i>Canadian Mineralogist</i> <b>25</b> (1987), 767             |
| Eifelite        | $\text{KNa}_2(\text{MgNa})(\text{Mg}_3\text{Si}_{12})\text{O}_{30}$                                                                   | A  | 1980-097  | Germany             | <i>Contributions to Mineralogy and Petrology</i> <b>82</b> (1983), 252                                                                   |                                                                |
| Eirikite        | $\text{KNa}_6\text{Be}_2(\text{Si}_{15}\text{Al}_3)\text{O}_{39}\text{F}_2$                                                           | A  | 2007-017  | Norway              | <i>European Journal of Mineralogy</i> <b>22</b> (2010), 875                                                                              | <i>American Mineralogist</i> <b>95</b> (2010), 519             |
| Eitelite        | $\text{Na}_2\text{Mg}(\text{CO}_3)_2$                                                                                                 | G  | 1955      | USA                 | <i>American Mineralogist</i> <b>40</b> (1955), 326                                                                                       | <i>American Mineralogist</i> <b>100</b> (2015), 2458           |
| Ekanite         | $\text{Ca}_2\text{ThSi}_8\text{O}_{20}$                                                                                               | A  | 1967 s.p. | Sri Lanka           | <i>Nature</i> <b>190</b> (1961), 997                                                                                                     | <i>Canadian Mineralogist</i> <b>20</b> (1982), 65              |
| Ekaterinite     | $\text{Ca}_2\text{B}_4\text{O}_7\text{Cl}_2 \cdot 2\text{H}_2\text{O}$                                                                | A  | 1979-067  | Russia              | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>109</b> (1980), 469                                                        |                                                                |
| Ekatite         | $(\text{Fe}^{3+}, \text{Fe}^{2+}, \text{Zn})_{12}(\text{AsO}_3)_6(\text{AsO}_3, \text{SiO}_3\text{OH})_2(\text{OH})_6$                | A  | 1998-024  | Namibia             | <i>European Journal of Mineralogy</i> <b>13</b> (2001), 769                                                                              |                                                                |
| Ekebergite      | $\text{ThFeNb}_2\text{O}_8$                                                                                                           | A  | 2018-088  | Germany             | CNMNC Newsletter 46 - <i>Mineralogical Magazine</i> <b>82</b> (2018), 1369; <i>European Journal of Mineralogy</i> <b>30</b> (2018), 1181 |                                                                |
| Ekplexite       | $(\text{Nb},\text{Mo})\text{S}_2 \cdot (\text{Mg}_{1-x}\text{Al}_x)(\text{OH})_{2+x}$                                                 | A  | 2011-082  | Russia              | <i>Mineralogical Magazine</i> <b>78</b> (2014), 663                                                                                      |                                                                |
| Elaliite        | $(\text{Fe}^{2+}_8\text{Fe}^{3+})(\text{PO}_4)_8$                                                                                     | A  | 2022-087  | Somalia (meteorite) | <i>American Mineralogist</i> <b>109</b> (2024), 2142                                                                                     |                                                                |
| Elasmochloite   | $\text{Na}_3\text{Cu}_6\text{BiO}_4(\text{SO}_4)_5$                                                                                   | A  | 2018-015  | Russia              | <i>European Journal of Mineralogy</i> <b>31</b> (2019), 1025                                                                             |                                                                |
| Elbaite         | $\text{Na}(\text{Al}_{1.5}\text{Li}_{1.5})\text{Al}_6(\text{Si}_6\text{O}_{18})(\text{BO}_3)_3(\text{OH})_3(\text{OH})$               | G  | 1913      | Italy               | <i>Zeitschrift für Kristallographie</i> <b>53</b> (1913), 273                                                                            | <i>European Journal of Mineralogy</i> <b>37</b> (2025), 505    |
| Elbrusite       | $\text{Ca}_3(\text{U}^{6+}_{0.5}\text{Zr}_{1.5})(\text{Fe}^{3+}\text{O}_4)_3$                                                         | Rn | 2009-051  | Russia              | <i>American Mineralogist</i> <b>95</b> (2010), 1172                                                                                      |                                                                |
| Eldfellite      | $\text{NaFe}^{3+}(\text{SO}_4)_2$                                                                                                     | A  | 2007-051  | Iceland             | <i>Mineralogical Magazine</i> <b>73</b> (2009), 51                                                                                       |                                                                |
| Eldragónite     | $\text{Cu}_6\text{BiSe}_4(\text{Se}_2)$                                                                                               | A  | 2010-077  | Bolivia             | <i>Canadian Mineralogist</i> <b>50</b> (2012), 281                                                                                       |                                                                |
| Eleomelanite    | $(\text{K}_2\text{Pb})\text{Cu}_4\text{O}_2(\text{SO}_4)_4$                                                                           | A  | 2015-118  | Russia              | <i>Canadian Mineralogist</i> <b>58</b> (2020), 625                                                                                       |                                                                |
| Elgoresyite     | $(\text{Mg}_5\text{Si}_2)\text{O}_9$                                                                                                  | A  | 2020-086  | China (meteorite)   | <i>ACS Earth and Space Chemistry</i> <b>5</b> (2021), 2124                                                                               |                                                                |
| Eliopouloisite  | $\text{V}_7\text{S}_8$                                                                                                                | A  | 2019-096  | Greece              | <i>Minerals</i> <b>10</b> (2020), 245                                                                                                    |                                                                |
| Eliseevite      | $\text{Na}_{1.5}\text{Li}\{\text{Ti}_2\text{O}_2[\text{Si}_4\text{O}_{10.5}(\text{OH})_{1.5}]\}(\text{H}_2\text{O})_2$                | A  | 2010-031  | Russia              | <i>American Mineralogist</i> <b>96</b> (2011), 1624                                                                                      |                                                                |
| Elkinstantonite | $\text{Fe}_4(\text{PO}_4)_2\text{O}$                                                                                                  | A  | 2022-088  | Somalia (meteorite) | <i>American Mineralogist</i> <b>109</b> (2024), 2142                                                                                     |                                                                |
| Ellenbergerite  | $\text{Mg}_6(\text{Mg},\text{Ti},\text{Zr},\square)_2(\text{Al},\text{Mg})_6\text{Si}_8\text{O}_{28}(\text{OH})_{10}$                 | A  | 1984-066  | Italy               | <i>Contributions to Mineralogy and Petrology</i> <b>92</b> (1986), 316                                                                   | <i>Crystallography Reports</i> <b>52</b> (2007), 199           |
| Ellinaite       | $\text{CaCr}_2\text{O}_4$                                                                                                             | A  | 2019-091  | Israel / Brazil     | <i>European Journal of Mineralogy</i> <b>33</b> (2021), 727                                                                              | <i>Mineralogical Magazine</i> <b>85</b> (2021), 387            |
| Ellingsenite    | $\text{Na}_5\text{Ca}_6\text{Si}_{18}\text{O}_{38}(\text{OH})_{13}(\text{H}_2\text{O})_6$                                             | A  | 2009-041  | Namibia             | <i>Canadian Mineralogist</i> <b>49</b> (2011), 1165                                                                                      |                                                                |
| Elliottite      | $\text{NaMgAl}_3(\text{PO}_4)_2\text{F}_6(\text{H}_2\text{O})_9$                                                                      | A  | 2021-113  | Australia           | <i>Australian Journal of Mineralogy</i> <b>23</b> (2022), 13                                                                             |                                                                |
| Ellisite        | $\text{Ti}_3\text{AsS}_3$                                                                                                             | A  | 1977-041  | USA                 | <i>American Mineralogist</i> <b>64</b> (1979), 701                                                                                       | <i>Zeitschrift für Kristallographie</i> <b>151</b> (1980), 249 |

|                 |                                                     |    |           |                     |                                                                                                                                        |                                                                                             |
|-----------------|-----------------------------------------------------|----|-----------|---------------------|----------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| Elpasolite      | $K_2NaAlF_6$                                        | G  | 1883      | USA                 | <i>U.S. Geological Survey Bulletin</i> <b>20</b> (1883), 40                                                                            | <i>Geology of Ore Deposits</i> <b>50</b> (2008), 749                                        |
| Elpidite        | $Na_2ZrSi_6O_{15}(H_2O)_3$                          | G  | 1894      | Denmark (Greenland) | <i>Geologiska Föreningens i Stockholm Förhandlingar</i> <b>16</b> (1894), 330                                                          | <i>Mineralogical Magazine</i> <b>85</b> (2021), 627                                         |
| Elramlyite-(Ce) | $(\square_{0.67}Ce_{0.33})Th_2(PO_4)_2F_3$          | A  | 2025-057  | Egypt               | CNMNC Newsletter 89 - <i>Mineralogical Magazine</i> <b>90</b> (2026), 481; <i>European Journal of Mineralogy</i> <b>38</b> (2026), 117 | <a href="https://doi.org/10.1180/mgm.2026.10242">https://doi.org/10.1180/mgm.2026.10242</a> |
| Eltybyuite      | $Ca_{12}Fe^{3+}_{10}Si_4O_{32}Cl_6$                 | A  | 2011-022  | Russia              | <i>European Journal of Mineralogy</i> <b>25</b> (2013), 221                                                                            | <i>European Journal of Mineralogy</i> <b>27</b> (2015), 137                                 |
| Elyite          | $CuPb_4(SO_4)O_2(OH)_4(H_2O)$                       | A  | 1971-043  | USA                 | <i>American Mineralogist</i> <b>57</b> (1972), 364                                                                                     | <i>American Mineralogist</i> <b>85</b> (2000), 1816                                         |
| Embreyite       | $Pb_5(CrO_4)_2(PO_4)_2(H_2O)$                       | A  | 1971-048  | Russia              | <i>Mineralogical Magazine</i> <b>38</b> (1972), 790                                                                                    | <i>Mineralogical Magazine</i> <b>82</b> (2018), 275                                         |
| Emeausite       | $Na_2LiFe^{3+}Si_6O_{15}$                           | A  | 1977-021  | Denmark (Greenland) | <i>Mineralogical Magazine</i> <b>42</b> (1978), 31                                                                                     | <i>Zeitschrift für Kristallographie</i> <b>147</b> (1978), 297                              |
| Emilite         | $Cu_{10.7}Pb_{10.7}Bi_{21.3}S_{48}$                 | A  | 2001-015  | Austria             | <i>Canadian Mineralogist</i> <b>44</b> (2006), 459                                                                                     | <i>Canadian Mineralogist</i> <b>40</b> (2002), 239                                          |
| Emmerichite     | $Ba_2Ti_2Na_3Fe^{3+}(Si_2O_7)_2O_2F_2$              | Rd | 2013-064  | Germany             | <i>New Data on Minerals</i> <b>49</b> (2014), 5                                                                                        | <i>Zeitschrift für Kristallographie</i> <b>229</b> (2014), 1                                |
| Emmonsite       | $Fe^{3+}_2(Te^{4+}O_3)_3(H_2O)_2$                   | G  | 1885      | USA                 | <i>Proceedings of the Colorado Scientific Society</i> <b>2</b> (1885), 20                                                              | <i>Tschermaks Mineralogische und Petrographische Mitteilungen</i> <b>18</b> (1972), 157     |
| Emplectite      | $CuBiS_2$                                           | G  | 1855      | Germany             | Uebersicht der Resultate Mineralogischer Forschungen im Jahre 1853. Weigel, Leipzig (1855), 125                                        | <i>American Mineralogist</i> <b>90</b> (2005), 162                                          |
| Empressite      | $AgTe$                                              | Rd | 1964 s.p. | USA                 | <i>American Journal of Science</i> <b>38</b> (1914), 163                                                                               | <i>American Mineralogist</i> <b>89</b> (2004), 1043                                         |
| Enargite        | $Cu_3AsS_4$                                         | G  | 1850      | Peru                | <i>Annalen der Physik und Chemie</i> <b>80</b> (1850), 383                                                                             | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (2002), 241                               |
| Engelhauptite   | $KCu_3(V_2O_7)(OH)_2Cl$                             | A  | 2013-009  | Germany             | <i>Mineralogy and Petrology</i> <b>109</b> (2015), 705                                                                                 |                                                                                             |
| Englishite      | $K_3Na_2Ca_{10}Al_{15}(OH)_7(PO_4)_{21}(H_2O)_{26}$ | G  | 1930      | USA                 | <i>American Mineralogist</i> <b>15</b> (1930), 307                                                                                     | <i>Canadian Mineralogist</i> <b>22</b> (1984), 469                                          |
| Enneasartorite  | $Tl_6Pb_{32}As_{70}S_{140}$                         | A  | 2015-074  | Switzerland         | <i>European Journal of Mineralogy</i> <b>29</b> (2017), 701                                                                            | <i>European Journal of Mineralogy</i> <b>30</b> (2018), 149                                 |
| Enricofrancoite | $KNaCaSi_4O_{10}$                                   | A  | 2023-002  | Italy               | <i>Mineralogical Magazine</i> <b>88</b> (2024), 277                                                                                    |                                                                                             |
| Enstatite       | $Mg_2Si_2O_6$                                       | A  | 1988 s.p. | Czech Republic      | <i>Sitzungsberichte der Kaiserlichen Akademie der Wissenschaften</i> <b>16</b> (1855), 152                                             | <i>Mineralogical Magazine</i> <b>79</b> (2015), 71                                          |
| Eosphorite      | $Mn^{2+}Al(PO_4)(OH)_2(H_2O)$                       | G  | 1878      | USA                 | <i>American Journal of Science and Arts</i> <b>116</b> (1878), 33                                                                      | <i>American Mineralogist</i> <b>98</b> (2013), 1297                                         |
| Ephesite        | $NaLiAl_2(Si_2Al_2)O_{10}(OH)_2$                    | A  | 1998 s.p. | Turkey              | <i>American Journal of Science</i> <b>11</b> (1851), 53                                                                                | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1987), 275                               |
| Epididymite     | $Na_2Be_2Si_6O_{15}(H_2O)$                          | G  | 1893      | Denmark (Greenland) | <i>Geologiska Föreningens i Stockholm Förhandlingar</i> <b>15</b> (1893), 195                                                          | <i>American Mineralogist</i> <b>93</b> (2008), 1158                                         |
| Epidote         | $Ca_2(Al_2Fe^{3+})(Si_2O_7)(SiO_4)O(OH)$            | G  | 1801      | unknown             | Traité de Minéralogie, Vol. 3. Chez Louis, Paris (1801), 102                                                                           | <i>American Mineralogist</i> <b>95</b> (2010), 1237                                         |
| Epidote-(Sr)    | $CaSr(Al_2Fe^{3+})(Si_2O_7)(SiO_4)O(OH)$            | A  | 2006-055  | Japan               | <i>Journal of Mineralogical and Petrological Sciences</i> <b>103</b> (2008), 400                                                       | <i>Mineralogy and Petrology</i> <b>118</b> (2024), 55                                       |
| Epiebnerite     | $(NH_4)Zn(PO_4)$                                    | A  | 2023-066  | USA                 | <i>Mineralogical Magazine</i> <b>88</b> (2024), 312                                                                                    |                                                                                             |
| Epifanovite     | $NaCaCu_5(PO_4)_4[AsO_2(OH)_2] \cdot 7H_2O$         | A  | 2016-063  | Russia              | <i>Zapiski Rossiyskogo Mineralogicheskogo Obshchestva</i> <b>146(3)</b> (2017), 30                                                     | <i>Zapiski Rossiyskogo Mineralogicheskogo Obshchestva</i> <b>146(3)</b> (2017), 39          |

|                |                                                                                                                                 |    |           |                     |                                                                                                           |                                                                                             |
|----------------|---------------------------------------------------------------------------------------------------------------------------------|----|-----------|---------------------|-----------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| Epistilbite    | $\text{Ca}_3[\text{Si}_{18}\text{Al}_6\text{O}_{48}] \cdot 16\text{H}_2\text{O}$                                                | A  | 1997 s.p. | Iceland             | <i>Annalen der Physik und Chemie</i> <b>6</b> (1826), 183                                                 | <i>European Journal of Mineralogy</i> <b>15</b> (2003), 257                                 |
| Epistolite     | $(\text{Na}\square)\text{Nb}_2\text{Na}_3\text{Ti}(\text{Si}_2\text{O}_7)_2\text{O}_2(\text{OH})_2(\text{H}_2\text{O})_4$       | Rd | 2016 s.p. | Denmark (Greenland) | <i>Meddelelser om Grønland</i> <b>24</b> (1901), 183                                                      | <i>Canadian Mineralogist</i> <b>42</b> (2004), 797                                          |
| Epsomite       | $\text{Mg}(\text{SO}_4)(\text{H}_2\text{O})_6 \cdot \text{H}_2\text{O}$                                                         | G  | 1806      | United Kingdom      | <i>Journal de Physique, de Chimie, d'Histoire Naturelle et des Arts</i> <b>62</b> (1806), 319             | <i>Atti della Società Toscana di Scienze Naturali, Mem., Ser. A</i> (2019), <b>126</b> , 33 |
| Erazoite       | $\text{Cu}_4\text{SnS}_6$                                                                                                       | A  | 2014-061  | Chile               | <i>Journal of Mineralogy and Geochemistry</i> <b>194</b> (2017), 91                                       |                                                                                             |
| Ercitite       | $\text{NaMn}^{3+}(\text{PO}_4)(\text{OH})(\text{H}_2\text{O})_2$                                                                | A  | 1999-036  | Canada              | <i>Canadian Mineralogist</i> <b>38</b> (2000), 893                                                        | <i>Canadian Mineralogist</i> <b>47</b> (2009), 173                                          |
| Erdite         | $\text{NaFeS}_2(\text{H}_2\text{O})_2$                                                                                          | A  | 1977-048  | USA                 | <i>American Mineralogist</i> <b>65</b> (1980), 509                                                        | <i>American Mineralogist</i> <b>65</b> (1980), 516                                          |
| Ericaite       | $\text{Fe}^{2+}_3\text{B}_7\text{O}_{13}\text{Cl}$                                                                              | G  | 1950      | Germany             | <i>Aufschluss</i> <b>1</b> (1950), 24                                                                     | <i>Chemie der Erde</i> <b>17</b> (1955), 211                                                |
| Ericlaxmanite  | $\text{Cu}_4\text{O}(\text{AsO}_4)_2$                                                                                           | A  | 2013-022  | Russia              | <i>Mineralogical Magazine</i> <b>78</b> (2014), 1553                                                      |                                                                                             |
| Ericssonite    | $\text{BaMn}^{2+}_2\text{Fe}^{3+}(\text{Si}_2\text{O}_7)\text{O}(\text{OH})$                                                    | Rd | 1966-013  | Sweden              | <i>Lithos</i> <b>4</b> (1971), 137                                                                        | <i>Canadian Mineralogist</i> <b>52</b> (2014), 569                                          |
| Erikapohlite   | $(\square_{0.5}\text{Cu}_{0.5})\text{CuCaZn}_2(\text{AsO}_4)_3(\text{H}_2\text{O})$                                             | A  | 2010-090  | Namibia             | <i>Journal of Mineralogy and Geochemistry</i> <b>190</b> (2013), 319                                      |                                                                                             |
| Erikjonssonite | $(\text{Pb}_{32}\text{O}_{21})[(\text{V}, \text{Si}, \text{Mo}, \text{As})\text{O}_4]_4\text{Cl}_9$                             | A  | 2018-058  | Namibia             | <i>European Journal of Mineralogy</i> <b>31</b> (2019), 619                                               |                                                                                             |
| Eringaite      | $\text{Ca}_3\text{Sc}_2(\text{SiO}_4)_3$                                                                                        | A  | 2009-054  | Russia              | <i>Mineralogical Magazine</i> <b>74</b> (2010), 365                                                       | <i>American Mineralogist</i> <b>91</b> (2006), 1240                                         |
| Eriochalcite   | $\text{CuCl}_2(\text{H}_2\text{O})_2$                                                                                           | G  | 1870      | Italy               | <i>Rendiconti della Reale Accademia delle Scienze Fisiche e Matematiche di Napoli</i> <b>9</b> (1870), 86 | <i>Crystals</i> <b>13</b> (2023), 293                                                       |
| Erionite-Ca    | $\text{Ca}_5[\text{Si}_{26}\text{Al}_{10}\text{O}_{72}] \cdot 30\text{H}_2\text{O}$                                             | A  | 1997 s.p. | Japan               | <i>American Mineralogist</i> <b>52</b> (1967), 1785                                                       | <i>Minerals</i> <b>9</b> (2019), 83                                                         |
| Erionite-K     | $\text{K}_{10}[\text{Si}_{26}\text{Al}_{10}\text{O}_{72}] \cdot 30\text{H}_2\text{O}$                                           | A  | 1997 s.p. | USA                 | <i>American Mineralogist</i> <b>49</b> (1964), 30                                                         | <i>American Mineralogist</i> <b>109</b> (2024), 1499                                        |
| Erionite-Na    | $\text{Na}_{10}[\text{Si}_{26}\text{Al}_{10}\text{O}_{72}] \cdot 30\text{H}_2\text{O}$                                          | Rn | 1997 s.p. | USA                 | <i>American Journal of Science</i> <b>156</b> (1898), 66                                                  | <i>Periodico di Mineralogica</i> <b>92</b> (2023), 159                                      |
| Erlianite      | $\text{Fe}^{2+}_4\text{Fe}^{3+}_2\text{Si}_6\text{O}_{15}(\text{OH})_8$                                                         | A  | 1985-042  | China               | <i>Mineralogical Magazine</i> <b>50</b> (1986), 285                                                       |                                                                                             |
| Erlichmanite   | $\text{OsS}_2$                                                                                                                  | A  | 1970-048  | USA                 | <i>American Mineralogist</i> <b>56</b> (1971), 1501                                                       | <i>Mineralogical Magazine</i> <b>87</b> (2023), 396                                         |
| Ermakovite     | $(\text{NH}_4)(\text{As}_2\text{O}_3)_2\text{Br}$                                                                               | A  | 2020-054  | Tajikistan          | <i>Mineralogical Magazine</i> <b>87</b> (2023), 69                                                        |                                                                                             |
| Ermeloite      | $\text{Al}(\text{PO}_4)(\text{H}_2\text{O})$                                                                                    | A  | 2021-017a | Spain               | <i>Mineralogical Magazine</i> <b>88</b> (2024), 412                                                       |                                                                                             |
| Ernienickelite | $\text{NiMn}^{4+}_3\text{O}_7(\text{H}_2\text{O})_3$                                                                            | A  | 1993-002  | Australia           | <i>Canadian Mineralogist</i> <b>32</b> (1994), 333                                                        |                                                                                             |
| Erniggliite    | $\text{Ti}_2\text{SnAs}_2\text{S}_6$                                                                                            | A  | 1987-025  | Switzerland         | <i>Schweizerische Mineralogische und Petrographische Mitteilungen</i> <b>72</b> (1992), 293               |                                                                                             |
| Ernstburkeite  | $\text{Mg}(\text{CH}_3\text{SO}_3)_2(\text{H}_2\text{O})_6 \cdot 6\text{H}_2\text{O}$                                           | A  | 2010-059  | Antarctica          | <i>European Journal of Mineralogy</i> <b>25</b> (2013), 79                                                |                                                                                             |
| Ernstite       | $(\text{Mn}^{2+}, \text{Fe}^{3+})\text{Al}(\text{PO}_4)(\text{OH}, \text{O})_2$                                                 | A  | 1970-012  | Namibia             | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1970), 289                                             |                                                                                             |
| Ershovite      | $\text{K}_3\text{Na}_4(\text{Fe}, \text{Mn}, \text{Ti})_2\text{Si}_8\text{O}_{20}(\text{OH}, \text{O})_4(\text{H}_2\text{O})_4$ | A  | 1991-014  | Russia              | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>122(1)</b> (1993), 116                    | <i>Soviet Physics - Crystallography</i> <b>36</b> (1991), 500                               |
| Erssonite      | $\text{CaMg}_7\text{Fe}^{3+}_2(\text{OH})_{18}(\text{SO}_4)_2(\text{H}_2\text{O})_6 \cdot 6\text{H}_2\text{O}$                  | A  | 2021-016  | Sweden              | <i>Mineralogical Magazine</i> <b>85</b> (2021), 817                                                       |                                                                                             |
| Ertixiite      | $\text{Na}_2\text{Si}_4\text{O}_9$                                                                                              | A  | 1983-042  | China               | <i>Geochemistry</i> <b>4</b> (1985), 192                                                                  |                                                                                             |
| Ertlite        | $\text{NaAl}_3\text{Al}_6(\text{Si}_4\text{B}_2\text{O}_{18})(\text{BO}_3)_3(\text{OH})_3\text{O}$                              | A  | 2023-086  | Madagascar          | <i>American Mineralogist</i> <b>110</b> (2025), 1865                                                      |                                                                                             |
| Erythrite      | $\text{Co}_3(\text{AsO}_4)_2(\text{H}_2\text{O})_8$                                                                             | G  | 1832      | France / Germany ?  | <i>Traité Élémentaire de Minéralogie</i> , 2nd ed. Verdière, Paris (1832), 596                            | <i>Minerals</i> <b>10</b> (2020), 548                                                       |

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|-----------------|------------------------------------------------------------------|----|-----------|---------------------|------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
| Erythrosiderite | $K_2Fe^{3+}Cl_5(H_2O)$                                           | G  | 1872      | Italy               | <i>Rendiconti della Reale Accademia delle Scienze Fisiche e Matematiche di Napoli</i> <b>5</b> (1873), 210                               | <i>Journal of Physics: Condensed Matter</i> <b>7</b> (1995), 4725                            |
| Erzwiesite      | $Ag_8Pb_{12}Bi_{16}S_{40}$                                       | A  | 2012-082  | Austria             | <i>European Journal of Mineralogy</i> <b>38</b> (2026), 237                                                                              |                                                                                              |
| Escheite        | $Ca_2NaMnTi_5[Si_{12}O_{34}]O_2(OH)_3 \cdot 12H_2O$              | A  | 2018-099  | Namibia             | CNMNC Newsletter 46 - <i>Mineralogical Magazine</i> <b>82</b> (2018), 1369; <i>European Journal of Mineralogy</i> <b>30</b> (2018), 1181 |                                                                                              |
| Esdanaite-(Ce)  | $NaMnCe(PO_4)_2(H_2O)_4$                                         | A  | 2018-112  | Canada              | <i>Canadian Journal of Mineralogy and Petrology</i> <b>63</b> (2025), 569                                                                |                                                                                              |
| Eskebornite     | $CuFeSe_2$                                                       | G  | 1949      | Germany             | <i>Fortschritte der Mineralogie</i> <b>28</b> (1949), 69                                                                                 | <i>Materials Research Bulletin</i> <b>27</b> (1992), 367                                     |
| Eskimoite       | $Ag_7Pb_{10}Bi_{15}S_{36}$                                       | A  | 1976-005  | Denmark (Greenland) | <i>Neues Jahrbuch für Mineralogie Abhandlungen</i> <b>131</b> (1977), 56                                                                 | <i>Mitteilungen der Österreichischen Mineralogischen Gesellschaft</i> <b>139</b> (1994), 135 |
| Eskolaite       | $Cr_2O_3$                                                        | G  | 1958      | Finland             | <i>American Mineralogist</i> <b>43</b> (1958), 1098                                                                                      | <i>American Mineralogist</i> <b>97</b> (2012), 1764                                          |
| Espadaite       | $Na_4Ca_3Mg_2[AsO_3(OH)]_2[AsO_2(OH)_2]_{10}(H_2O)_6 \cdot H_2O$ | A  | 2018-089  | Chile               | <i>Mineralogical Magazine</i> <b>83</b> (2019), 655                                                                                      |                                                                                              |
| Esperanzaite    | $NaCa_2Al_2(AsO_4)_2F_4(OH)(H_2O)_2$                             | A  | 1998-025  | Mexico              | <i>Canadian Mineralogist</i> <b>37</b> (1999), 67                                                                                        |                                                                                              |
| Esperite        | $PbCa_2(ZnSiO_4)_3$                                              | A  | 1964-027  | USA                 | <i>American Mineralogist</i> <b>50</b> (1965), 1170                                                                                      | <i>American Mineralogist</i> <b>95</b> (2010), 699                                           |
| Esquireite      | $BaSi_6O_{13}(H_2O)_7$                                           | A  | 2014-066  | USA                 | <i>Canadian Mineralogist</i> <b>53</b> (2015), 3                                                                                         |                                                                                              |
| Esseneite       | $CaFe^{3+}AlSiO_6$                                               | A  | 1985-048  | USA                 | <i>American Mineralogist</i> <b>72</b> (1987), 148                                                                                       | <i>Geology of Ore Deposits</i> <b>61</b> (2019), 689                                         |
| Ettringite      | $Ca_6Al_2(SO_4)_3(OH)_{12}(H_2O)_{24} \cdot 2H_2O$               | A  | 1962 s.p. | Germany             | <i>Neues Jahrbuch für Mineralogie, Geologie und Paläontologie</i> (1874), 273                                                            | <i>American Mineralogist</i> <b>104</b> (2019), 73                                           |
| Eucairite       | $CuAgSe$                                                         | G  | 1818      | Sweden              | <i>Afhandlingar i Fysik, Kemi och Mineralogi</i> <b>6</b> (1818), 140                                                                    | <i>Zeitschrift für Kristallographie</i> <b>108</b> (1957), 389                               |
| Euchlorine      | $KNaCu_3O(SO_4)_3$                                               | G  | 1884      | Italy               | <i>Rendiconti della Regia Accademia delle Scienze Fisiche e Matematiche di Napoli</i> <b>23</b> (1884), 158                              | <i>Physics and Chemistry of Minerals</i> <b>46</b> (2019), 403                               |
| Euchroite       | $Cu_2(AsO_4)(OH)(H_2O)_3$                                        | G  | 1823      | Slovakia            | Vollständige Charakteristik des Mineral-Systems. Arnoldischen Buchhandlung, Dresden (1823), 266                                          | <i>Mineralogy and Petrology</i> <b>110</b> (2016), 877                                       |
| Euclase         | $BeAlSiO_4(OH)$                                                  | G  | 1792      | Brazil              | <i>Observations sur la Physique, sur l'Histoire Naturelle et sur les Arts</i> <b>41</b> (1792), 155                                      | <i>Canadian Mineralogist</i> <b>55</b> (2017), 799                                           |
| Eucryptite      | $LiAl(SiO_4)$                                                    | G  | 1880      | USA                 | <i>American Journal of Science</i> <b>120</b> (1880), 258                                                                                | <i>American Mineralogist</i> <b>86</b> (2001), 279                                           |
| Eudialyte       | $Na_{15}Ca_6Fe_3Zr_3Si(Si_{25}O_{73})(O,OH,H_2O)_3(Cl,OH)_2$     | A  | 2003 s.p. | Denmark (Greenland) | <i>Göttingische Gelehrte Anzeigen</i> <b>3</b> (1819), 1993                                                                              | <i>Crystallography Reports</i> <b>54</b> (2009), 413                                         |
| Eudymite        | $Na_2Be_2Si_6O_{15}(H_2O)$                                       | G  | 1887      | Norway              | <i>Nyt Magazin for Naturvidenskabena Kristiana</i> <b>31</b> (1887), 196                                                                 | <i>American Mineralogist</i> <b>93</b> (2008), 1158                                          |
| Eugenite        | $Ag_{11}Hg_2$                                                    | A  | 1981-037  | Poland              | <i>Mineralogia Polonica</i> <b>17(2)</b> (1986), 3                                                                                       |                                                                                              |
| Eugsterite      | $Na_4Ca(SO_4)_3 \cdot 2H_2O$                                     | A  | 1980-008  | Kenya / Turkey      | <i>American Mineralogist</i> <b>66</b> (1981), 632                                                                                       |                                                                                              |
| Eulytine        | $Bi_4(SiO_4)_3$                                                  | G  | 1827      | Germany             | <i>Annalen der Physik und Chemie</i> <b>9</b> (1827), 275                                                                                | <i>Zeitschrift für Kristallographie</i> <b>212</b> (1997), 48                                |
| Eurekadumpite   | $(Cu,Zn)_{16}(Te^{4+}O_3)_2(AsO_4)_3Cl(OH)_{18} \cdot 7H_2O$     | A  | 2009-072  | USA                 | <i>Zapiski Rossiyskogo Mineralogicheskogo Obshchestva</i> <b>139(4)</b> (2010), 26                                                       |                                                                                              |
| Euxenite-(Y)    | $Y(NbTi)O_6$                                                     | Rd | 2022 s.p. | Norway              | <i>Annalen der Physik und Chemie</i> <b>50</b> (1840), 149                                                                               | <i>Zeitschrift für Kristallographie</i> <b>152</b> (1980), 69                                |

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| Evanichite   | $\text{Pb}_6\text{Cr}^{3+}(\text{Cr}^{6+}\text{O}_4)_2(\text{SO}_4)(\text{OH})_7\text{FCl}$                                                                                                     | A  | 2022-033  | USA                              | <i>Canadian Journal of Mineralogy and Petrology</i> <b>61</b> (2023), 419                                                             |                                                                                       |
| Evansite     | $\text{Al}_3(\text{PO}_4)(\text{OH})_6 \cdot 8\text{H}_2\text{O}$                                                                                                                               | G  | 1864      | Slovakia                         | <i>Philosophical Magazine and Journal of Science</i> <b>28</b> (1864), 341                                                            | <i>Canadian Mineralogist</i> <b>33</b> (1995), 59                                     |
| Evdokimovite | $\text{Ti}_4(\text{VO})_3(\text{SO}_4)_5(\text{H}_2\text{O})_5$                                                                                                                                 | A  | 2013-041  | Russia                           | <i>Mineralogical Magazine</i> <b>78</b> (2014), 1711                                                                                  |                                                                                       |
| Eveite       | $\text{Mn}^{2+}_2(\text{AsO}_4)(\text{OH})$                                                                                                                                                     | A  | 1966-047  | Sweden                           | <i>Arkiv för Mineralogi och Geologi</i> <b>4</b> (1968), 473                                                                          | <i>Acta Crystallographica</i> <b>E67</b> (2011), i68                                  |
| Evenkite     | $\text{C}_{23}\text{H}_{48}$                                                                                                                                                                    | G  | 1953      | Russia                           | <i>Doklady Akademii Nauk SSSR</i> <b>88</b> (1953), 717                                                                               | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>133(3)</b> (2004), 80 |
| Eveslogite   | $(\text{Ca}, \text{K}, \text{Na}, \text{Sr}, \text{Ba})_{48}(\text{Ti}, \text{Nb}, \text{Fe}, \text{Mn})_{12}(\text{OH})_{12}\text{Si}_{48}\text{O}_{144}(\text{OH}, \text{F}, \text{Cl})_{14}$ | A  | 2001-023  | Russia                           | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>132(1)</b> (2003), 59                                                 |                                                                                       |
| Evseevite    | $\text{Na}_2\text{Mg}(\text{AsO}_4)\text{F}$                                                                                                                                                    | A  | 2019-064  | Russia                           | <i>Mineralogical Magazine</i> <b>87</b> (2023), 839                                                                                   |                                                                                       |
| Ewaldite     | $\text{BaCa}(\text{CO}_3)_2 \cdot 2.6\text{H}_2\text{O}$                                                                                                                                        | A  | 1969-013  | USA                              | <i>Tschermaks Mineralogische und Petrographische Mitteilungen</i> <b>15</b> (1971), 185                                               | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>121(1)</b> (1992), 56 |
| Ewingite     | $\text{Mg}_8\text{Ca}_8(\text{UO}_2)_{24}(\text{CO}_3)_{30}\text{O}_4(\text{OH})_{12}(\text{H}_2\text{O})_{138}$                                                                                | A  | 2016-012  | Czech Republic                   | <i>Geology</i> <b>45</b> (2017), 1007                                                                                                 |                                                                                       |
| Eylettersite | $\text{Th}_{0.75}\text{Al}_3(\text{PO}_4)_2(\text{OH})_6$                                                                                                                                       | A  | 1969-035  | Democratic Republic of the Congo | <i>Bulletin de la Société Française de Minéralogie et de Cristallographie</i> <b>95</b> (1972), 98                                    |                                                                                       |
| Eyselite     | $\text{Fe}^{3+}\text{Ge}^{4+}_3\text{O}_7(\text{OH})$                                                                                                                                           | A  | 2003-052  | Namibia                          | <i>Canadian Mineralogist</i> <b>42</b> (2004), 1771                                                                                   |                                                                                       |
| Ezcurrite    | $\text{Na}_2\text{B}_5\text{O}_7(\text{OH})_3 \cdot 2\text{H}_2\text{O}$                                                                                                                        | G  | 1957      | Argentina                        | <i>Economic Geology</i> <b>52</b> (1957), 426                                                                                         | <i>American Mineralogist</i> <b>58</b> (1973), 110                                    |
| Ezochiite    | $\text{Cu}^+(\text{Rh}^{3+}\text{Pt}^{4+})\text{S}_4$                                                                                                                                           | A  | 2022-101  | Japan                            | <i>Journal of Mineralogical and Petrological Sciences</i> <b>119</b> (2024), 008                                                      |                                                                                       |
| Eztlite      | $\text{Pb}_2\text{Fe}^{3+}_3(\text{Te}^{4+}\text{O}_3)_3(\text{SO}_4)\text{O}_2\text{Cl}$                                                                                                       | Rd | 1980-072  | Mexico                           | <i>Mineralogical Magazine</i> <b>46</b> (1982), 257                                                                                   | <i>Mineralogical Magazine</i> <b>82</b> (2018), 1355                                  |
| Fabianite    | $\text{CaB}_3\text{O}_5(\text{OH})$                                                                                                                                                             | A  | 1967 s.p. | Germany                          | <i>Kali und Steinsalz</i> <b>3</b> (1962), 285                                                                                        | <i>Zeitschrift für Kristallographie</i> <b>132</b> (1970), 241                        |
| Fabrièsite   | $\text{Na}_3\text{Al}_3\text{Si}_3\text{O}_{12} \cdot 2\text{H}_2\text{O}$                                                                                                                      | Rn | 2012-080  | Myanmar                          | <i>European Journal of Mineralogy</i> <b>26</b> (2014), 257                                                                           |                                                                                       |
| Fabritzite   | $\text{Zn}_9(\text{SO}_4)_2(\text{OH})_{12}\text{Cl}_2(\text{H}_2\text{O})_6$                                                                                                                   | A  | 2020-040  | Greece                           | CNMNC Newsletter 71 - <i>Mineralogical Magazine</i> <b>87</b> (2023), 332; <i>European Journal of Mineralogy</i> <b>35</b> (2023), 75 |                                                                                       |
| Faheyite     | $\text{Be}_2\text{Mn}^{2+}\text{Fe}^{3+}_2(\text{PO}_4)_4(\text{H}_2\text{O})_6$                                                                                                                | G  | 1953      | Brazil                           | <i>American Mineralogist</i> <b>38</b> (1953), 263                                                                                    | <i>Canadian Mineralogist</i> <b>53</b> (2015), 199                                    |
| Fahleite     | $\text{CaZn}_5\text{Fe}^{3+}_2(\text{AsO}_4)_6 \cdot 14\text{H}_2\text{O}$                                                                                                                      | A  | 1982-061  | Namibia                          | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1988), 167                                                                         |                                                                                       |
| Fairbankite  | $\text{Pb}^{2+}_{12}(\text{Te}^{4+}\text{O}_3)_{11}(\text{SO}_4)$                                                                                                                               | Rd | 2020 s.p. | USA                              | <i>Mineralogical Magazine</i> <b>43</b> (1979), 453                                                                                   | <i>American Mineralogist</i> <b>106</b> (2021), 309                                   |
| Fairchildite | $\text{K}_2\text{Ca}(\text{CO}_3)_2$                                                                                                                                                            | G  | 1947      | USA                              | <i>American Mineralogist</i> <b>32</b> (1947), 607                                                                                    | <i>Zeitschrift für Kristallographie</i> <b>157</b> (1981), 199                        |
| Fairfieldite | $\text{Ca}_2\text{Mn}^{2+}(\text{PO}_4)_2(\text{H}_2\text{O})_2$                                                                                                                                | G  | 1879      | USA                              | <i>American Journal of Science and Arts</i> <b>17</b> (1879), 359                                                                     | <i>Canadian Mineralogist</i> <b>44</b> (2006), 1181                                   |
| Faizievite   | $\text{Li}_6\text{K}_2\text{Na}(\text{Ca}_6\text{Na})\text{Ti}_4(\text{Si}_6\text{O}_{18})_2(\text{Si}_{12}\text{O}_{30})\text{F}_2$                                                            | A  | 2006-037  | Tajikistan                       | <i>New Data on Minerals</i> <b>42</b> (2007), 5                                                                                       | <i>Canadian Mineralogist</i> <b>46</b> (2008), 163                                    |
| Falcondoite  | $\text{Ni}_4\text{Si}_6\text{O}_{15}(\text{OH})_2(\text{H}_2\text{O})_2 \cdot 4\text{H}_2\text{O}$                                                                                              | A  | 1976-018  | Dominican Republic               | <i>Canadian Mineralogist</i> <b>14</b> (1976), 407                                                                                    |                                                                                       |
| Falgarite    | $\text{K}_4(\text{VO})_3(\text{SO}_4)_5$                                                                                                                                                        | A  | 2018-069  | Tajikistan                       | <i>Mineralogical Magazine</i> <b>84</b> (2020), 455                                                                                   |                                                                                       |
| Falkmanite   | $\text{Pb}_3\text{Sb}_2\text{S}_6$                                                                                                                                                              | G  | 1940      | Germany                          | <i>Neues Jahrbuch für Mineralogie, Abt. A Beih.</i> <b>75</b> (1940), 315                                                             | <i>European Journal of Mineralogy</i> <b>13</b> (2001), 411                           |
| Falottaite   | $\text{MnC}_2\text{O}_4 \cdot 3\text{H}_2\text{O}$                                                                                                                                              | A  | 2013-044  | Switzerland                      | <i>Schweizer Strahler</i> <b>3</b> (2016), 20                                                                                         | <i>Inorganic Chemistry Communications</i> <b>8</b> (2005), 732                        |

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| Falsterite    | $\text{Ca}_2\text{MgMn}^{2+}_2\text{Fe}^{2+}_2\text{Fe}^{3+}_2\text{Zn}_4(\text{PO}_4)_8(\text{OH})_4(\text{H}_2\text{O})_{14}$                                      | A  | 2011-061  | USA               | <i>American Mineralogist</i> <b>97</b> (2012), 496                                                                                         |                                                                                  |
| Famatinite    | $\text{Cu}_3\text{SbS}_4$                                                                                                                                            | G  | 1873      | Argentina         | <i>Mineralogische Mittheilungen</i> <b>4</b> (1873), 219                                                                                   | <i>Zeitschrift für Kristallographie</i> <b>219</b> (2004), 20                    |
| Fanfaniite    | $\text{Ca}_4\text{Mn}^{2+}\text{Al}_4(\text{PO}_4)_6(\text{OH})_4(\text{H}_2\text{O})_{12}$                                                                          | A  | 2018-053  | USA / Germany     | <i>European Journal of Mineralogy</i> <b>31</b> (2019), 647                                                                                | <i>Mineralogical Magazine</i> <b>90</b> (2026), 181                              |
| Fangite       | $\text{Ti}_3\text{AsS}_4$                                                                                                                                            | A  | 1991-047  | USA               | <i>American Mineralogist</i> <b>78</b> (1993), 1096                                                                                        |                                                                                  |
| Fanguangite   | $(\text{MoO}_2)(\text{PO}_3\text{OH})(\text{H}_2\text{O}) \cdot 3\text{H}_2\text{O}$                                                                                 | A  | 2023-112  | USA               | CNMNC Newsletter 78 - <i>Mineralogical Magazine</i> <b>88</b> (2024), 345; <i>European Journal of Mineralogy</i> <b>36</b> (2024), 361     |                                                                                  |
| Fantappièite  | $(\text{Na}_{82.5}\text{Ca}_{33}\text{K}_{16.5})(\text{Si}_{99}\text{Al}_{99}\text{O}_{396})(\text{SO}_4)_{33} \cdot 6\text{H}_2\text{O}$                            | A  | 2008-006  | Italy             | <i>American Mineralogist</i> <b>95</b> (2010), 472                                                                                         |                                                                                  |
| Farneseite    | $\text{Na}_{46}\text{Ca}_{10}(\text{Si}_{42}\text{Al}_{42}\text{O}_{168})(\text{SO}_4)_{12}(\text{H}_2\text{O})_6$                                                   | A  | 2004-043  | Italy             | <i>European Journal of Mineralogy</i> <b>17</b> (2005), 839                                                                                |                                                                                  |
| Farringtonite | $\text{Mg}_3(\text{PO}_4)_2$                                                                                                                                         | A  | 1967 s.p. | Canada            | <i>Geochimica et Cosmochimica Acta</i> <b>24</b> (1961), 198                                                                               | <i>Acta Chemica Scandinavica</i> <b>22</b> (1968), 1466                          |
| Fassinaite    | $\text{Pb}_2(\text{CO}_3)(\text{S}_2\text{O}_3)$                                                                                                                     | A  | 2011-048  | Italy             | <i>Mineralogical Magazine</i> <b>75</b> (2011), 2721                                                                                       |                                                                                  |
| Faujasite-Ca  | $(\text{Ca}, \text{Na}, \text{Mg})_2(\text{Si}, \text{Al})_{12}\text{O}_{24} \cdot 15\text{H}_2\text{O}$                                                             | A  | 1997 s.p. | Germany           | <i>American Mineralogist</i> <b>67</b> (1982), 794                                                                                         | <i>Materials Research Bulletin</i> <b>7</b> (1972), 1311                         |
| Faujasite-Mg  | $(\text{Mg}, \text{Na}, \text{K}, \text{Ca})_2(\text{Si}, \text{Al})_{12}\text{O}_{24} \cdot 15\text{H}_2\text{O}$                                                   | A  | 1997 s.p. | Germany           | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1975), 433                                                                              |                                                                                  |
| Faujasite-Na  | $(\text{Na}, \text{Ca}, \text{Mg})_2(\text{Si}, \text{Al})_{12}\text{O}_{24} \cdot 15\text{H}_2\text{O}$                                                             | Rn | 1997 s.p. | Germany           | <i>Annales des Mines, Ser. 4</i> <b>1</b> (1842), 395                                                                                      | <i>European Journal of Mineralogy</i> <b>30</b> (2018), 515                      |
| Faustite      | $\text{ZnAl}_6(\text{PO}_4)_4(\text{OH})_8(\text{H}_2\text{O})_4$                                                                                                    | G  | 1953      | USA               | <i>American Mineralogist</i> <b>38</b> (1953), 964                                                                                         | <i>Mineralogical Magazine</i> <b>64</b> (2000), 905                              |
| Favreauite    | $\text{PbBiCu}_6\text{O}_4(\text{SeO}_3)_4(\text{OH})(\text{H}_2\text{O})$                                                                                           | A  | 2014-013  | Bolivia           | <i>European Journal of Mineralogy</i> <b>26</b> (2014), 771                                                                                |                                                                                  |
| Fayalite      | $\text{Fe}^{2+}_2(\text{SiO}_4)$                                                                                                                                     | G  | 1840      | Portugal          | <i>Annalen der Physik und Chemie</i> <b>51</b> (1840), 160                                                                                 | <i>Mineralogical Magazine</i> <b>87</b> (2023), 789                              |
| Fedorite      | $(\text{K}, \text{Na})_{2.5}(\text{Ca}, \text{Na})_7\text{Si}_{16}\text{O}_{38}(\text{OH}, \text{F})_2(\text{H}_2\text{O})_{3.5}$                                    | A  | 1967 s.p. | Russia            | Caledonian Complex of Ultrabasic Alkaline Rocks and Carbonatites of the Kola Peninsula and Northern Karelia. Nedra Press, Leningrad (1965) | <i>Mineralogical Magazine</i> <b>87</b> (2023), 542                              |
| Fedorovskite  | $\text{Ca}_2\text{Mg}_2\text{B}_4\text{O}_7(\text{OH})_6$                                                                                                            | A  | 1975-006  | Russia            | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>105</b> (1976), 71                                                           | <i>Journal of Mineralogical and Petrological Sciences</i> <b>115</b> (2020), 479 |
| Fedotovite    | $\text{K}_2\text{Cu}_3\text{O}(\text{SO}_4)_3$                                                                                                                       | A  | 1986-013  | Russia            | <i>Doklady Akademii Nauk SSSR</i> <b>299</b> (1988), 961                                                                                   | <i>Mineralogical Magazine</i> <b>55</b> (1991), 613                              |
| Fehrite       | $\text{MgCu}_4(\text{SO}_4)_2(\text{OH})_6(\text{H}_2\text{O})_6$                                                                                                    | A  | 2018-125a | Spain             | <i>Neues Jahrbuch für Mineralogie Abhandlungen</i> <b>197</b> (2021), 1                                                                    |                                                                                  |
| Feiite        | $\text{Fe}^{2+}_2(\text{Fe}^{2+}\text{Ti}^{4+})\text{O}_5$                                                                                                           | A  | 2017-041a | India (meteorite) | <i>Meteoritics &amp; Planetary Science</i> <b>60</b> (2025), 375                                                                           | <i>American Mineralogist</i> <b>109</b> (2024), 144                              |
| Feinglosite   | $\text{Pb}_2\text{Zn}(\text{AsO}_4)_2 \cdot \text{H}_2\text{O}$                                                                                                      | A  | 1995-013  | Namibia           | <i>Mineralogical Magazine</i> <b>61</b> (1997), 285                                                                                        |                                                                                  |
| Feitknechtite | $\text{Mn}^{3+}\text{O}(\text{OH})$                                                                                                                                  | A  | 1968 s.p. | USA               | <i>American Mineralogist</i> <b>50</b> (1965), 1296                                                                                        | <i>American Mineralogist</i> <b>108</b> (2023), 2131                             |
| Feklichevite  | $\text{Na}_{11}\text{Ca}_9(\text{Fe}^{3+}, \text{Fe}^{2+})_2\text{Zr}_3\text{Nb}(\text{Si}_{25}\text{O}_{73})(\text{OH}, \text{H}_2\text{O}, \text{Cl}, \text{O})_5$ | A  | 2000-017  | Russia            | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>130(3)</b> (2001), 55                                                      |                                                                                  |
| Felbertalite  | $\text{Cu}_2\text{Pb}_6\text{Bi}_8\text{S}_{19}$                                                                                                                     | A  | 1999-042  | Austria           | <i>European Journal of Mineralogy</i> <b>13</b> (2001), 961                                                                                | <i>European Journal of Mineralogy</i> <b>12</b> (2000), 825                      |
| Felsőbányaite | $\text{Al}_4(\text{SO}_4)(\text{OH})_{10} \cdot 4\text{H}_2\text{O}$                                                                                                 | G  | 1854      | Romania           | <i>Sitzungsberichte der Mathematisch-Naturwissenschaftlichen Classe der Kaiserlichen Akademie der Wissenschaften</i> <b>12</b> (1854), 183 | <i>American Mineralogist</i> <b>102</b> (2017), 2381                             |

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| Fenaksite                  | $\text{KNaFe}^{2+}\text{Si}_4\text{O}_{10}$                                                                                              | A  | 1962 s.p. | Russia              | <i>Trudy Mineralogicheskogo Muzeya Akademii Nauk SSSR</i> <b>9</b> (1959), 152                                                         | <i>Doklady Earth Sciences</i> <b>398</b> (2004), 1029                                    |
| Fenocooperite              | $\text{Ba}_6\text{Fe}^{3+}_3\text{Si}_8\text{O}_{23}(\text{CO}_3)_2\text{Cl}_3(\text{H}_2\text{O})$                                      | A  | 2000-023  | USA                 | <i>Canadian Mineralogist</i> <b>39</b> (2001), 1059                                                                                    | <i>Canadian Mineralogist</i> <b>39</b> (2001), 1065                                      |
| Fengchengite               | $\text{Na}_{12}\square_3\text{Ca}_6\text{Fe}^{3+}_3\text{Zr}_3\text{Si}(\text{Si}_{25}\text{O}_{73})(\text{H}_2\text{O})_3(\text{OH})_2$ | A  | 2007-018a | China               | <i>Acta Mineralogica Sinica</i> <b>37</b> (2017), 140                                                                                  |                                                                                          |
| Fengruite                  | $[\text{Ag}_6\text{Sb}_2\text{S}_7][\text{Ag}_9\text{CuS}_2\text{Te}_2]$                                                                 | A  | 2024-045  | China               | CNMNC Newsletter 84 - <i>Mineralogical Magazine</i> <b>89</b> (2025), 298; <i>European Journal of Mineralogy</i> <b>37</b> (2025), 249 |                                                                                          |
| Feodosiyite                | $\text{Cu}_{11}\text{Mg}_2\text{Cl}_{18}(\text{OH})_8(\text{H}_2\text{O})_{14}\cdot 2\text{H}_2\text{O}$                                 | A  | 2015-063  | Russia              | <i>Neues Jahrbuch für Mineralogie Abhandlungen</i> <b>195</b> (2018), 27                                                               |                                                                                          |
| Ferberite                  | $\text{Fe}^{2+}(\text{WO}_4)$                                                                                                            | G  | 1863      | Spain               | <i>Neues Jahrbuch für Mineralogie, Geologie und Paläontologie</i> (1863), 641                                                          | <i>Inorganic Chemistry</i> <b>63</b> (2024), 6898                                        |
| Ferchromide                | $\text{Cr}_{1.5}\text{Fe}_{0.2}$                                                                                                         | A  | 1984-022  | Russia              | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>115</b> (1986), 355                                                      |                                                                                          |
| Ferdowsiite                | $\text{Ag}_8(\text{Sb}_5\text{As}_3)\text{S}_{16}$                                                                                       | A  | 2012-062  | Iran                | <i>Canadian Mineralogist</i> <b>51</b> (2013), 727                                                                                     | <i>Atti della Società Toscana di Scienze Naturali, Mem., Ser. A</i> <b>124</b> (2017), 5 |
| Fergusonite-(Ce)           | $\text{CeNbO}_4\cdot 0.3\text{H}_2\text{O}$                                                                                              | Q  | ?         | Ukraine             | <i>Novye Dannye o Mineralakh</i> <b>33</b> (1986), 43                                                                                  | <i>Acta Crystallographica</i> <b>C60</b> (2004), i37                                     |
| Fergusonite-(Y)            | $\text{YNbO}_4$                                                                                                                          | Rn | 1987 s.p. | Denmark (Greenland) | <i>Edinburgh Journal of Science</i> <b>2</b> (1825), 375                                                                               | <i>Physics and Chemistry of Minerals</i> <b>51</b> (2024), 8                             |
| Ferhodsit                  | $(\text{Fe}, \text{Rh}, \text{Ni}, \text{Ir}, \text{Cu}, \text{Co}, \text{Pt})_{9-x}\text{S}_8$                                          | A  | 2009-056  | Russia              | <i>New Data on Minerals</i> <b>51</b> (2016), 8                                                                                        |                                                                                          |
| Fermiite                   | $\text{Na}_4(\text{UO}_2)(\text{SO}_4)_3(\text{H}_2\text{O})_3$                                                                          | A  | 2014-068  | USA                 | <i>Mineralogical Magazine</i> <b>79</b> (2015), 1123                                                                                   |                                                                                          |
| Fernandinite               | $(\text{Ca}, \text{Na}, \text{K})_{0.9}(\text{V}^{5+}, \text{V}^{4+}, \text{Fe}^{2+}, \text{Ti})_8\text{O}_{20}(\text{H}_2\text{O})_4$   | Rd | 1994 s.p. | Peru                | <i>Journal of the Washington Academy of Sciences</i> <b>5</b> (1915), 7                                                                | <i>Canadian Mineralogist</i> <b>32</b> (1994), 339                                       |
| Feroxyhyte                 | $\text{Fe}^{3+}\text{O}(\text{OH})$                                                                                                      | A  | 1975-032  | Ukraine             | <i>Izvestiya Akademii Nauk SSSR, Seriya Geologicheskaya</i> <b>5</b> (1976), 5                                                         | <i>Journal of Solid State Chemistry</i> <b>225</b> (2015), 256                           |
| Ferraioloite               | $\text{MgMn}^{2+}_4(\text{Fe}^{2+}_{0.5}\text{Al}_{0.5})_4\text{Zn}_4(\text{PO}_4)_8(\text{OH})_4(\text{H}_2\text{O})_{20}$              | A  | 2015-066  | USA                 | <i>European Journal of Mineralogy</i> <b>28</b> (2016), 655                                                                            | <i>Journal of Geosciences</i> <b>66</b> (2021), 139                                      |
| Ferrarisite                | $\text{Ca}_5(\text{AsO}_3\text{OH})_2(\text{AsO}_4)_2(\text{H}_2\text{O})_8\cdot \text{H}_2\text{O}$                                     | A  | 1979-020  | France              | <i>Bulletin de Minéralogie</i> <b>103</b> (1980), 533                                                                                  | <i>Bulletin de Minéralogie</i> <b>103</b> (1980), 541                                    |
| Ferriakasaite-(Ce)         | $\text{CaCe}(\text{Fe}^{3+}\text{AlMn}^{2+})(\text{Si}_2\text{O}_7)(\text{SiO}_4)\text{O}(\text{OH})$                                    | A  | 2018-087  | Italy               | <i>Minerals</i> <b>9</b> (2019), 353                                                                                                   |                                                                                          |
| Ferriakasaite-(La)         | $\text{CaLa}(\text{Fe}^{3+}\text{AlMn}^{2+})(\text{Si}_2\text{O}_7)(\text{SiO}_4)\text{O}(\text{OH})$                                    | A  | 2013-126  | Japan               | <i>Mineralogical Magazine</i> <b>79</b> (2015), 735                                                                                    | <i>European Journal of Mineralogy</i> <b>30</b> (2018), 323                              |
| Ferriallanite-(Ce)         | $\text{CaCe}(\text{Fe}^{3+}\text{AlFe}^{2+})(\text{Si}_2\text{O}_7)(\text{SiO}_4)\text{O}(\text{OH})$                                    | A  | 2000-041  | Mongolia            | <i>Canadian Mineralogist</i> <b>40</b> (2002), 1641                                                                                    | <i>Mineralogy and Petrology</i> <b>117</b> (2023), 345                                   |
| Ferriallanite-(La)         | $\text{CaLa}(\text{Fe}^{3+}\text{AlFe}^{2+})(\text{Si}_2\text{O}_7)(\text{SiO}_4)\text{O}(\text{OH})$                                    | A  | 2010-066  | Germany             | <i>European Journal of Mineralogy</i> <b>24</b> (2012), 741                                                                            |                                                                                          |
| Ferriandrosite-(Ce)        | $\text{MnCe}(\text{Fe}^{3+}\text{AlMn}^{2+})(\text{Si}_2\text{O}_7)(\text{SiO}_4)\text{O}(\text{OH})$                                    | A  | 2023-022  | Slovakia            | <i>Mineralogical Magazine</i> <b>87</b> (2023), 887                                                                                    |                                                                                          |
| Ferriandrosite-(La)        | $\text{MnLa}(\text{Fe}^{3+}\text{AlMn}^{2+})(\text{Si}_2\text{O}_7)(\text{SiO}_4)\text{O}(\text{OH})$                                    | A  | 2013-127  | Japan               | <i>Mineralogical Magazine</i> <b>79</b> (2015), 735                                                                                    |                                                                                          |
| Ferribushmakinit           | $\text{Pb}_2\text{Fe}^{3+}(\text{PO}_4)(\text{VO}_4)(\text{OH})$                                                                         | A  | 2014-055  | USA                 | <i>Mineralogical Magazine</i> <b>79</b> (2015), 661                                                                                    |                                                                                          |
| Ferricerite-(LaCa)         | $(\text{La}_6\text{Ca}_3)\square\text{Fe}^{3+}(\text{SiO}_4)_3(\text{SiO}_3\text{OH})_4(\text{OH})_3$                                    | Rd | 2023 s.p. | Russia              | <i>Canadian Mineralogist</i> <b>40</b> (2002), 1177                                                                                    | <i>Mineralogical Magazine</i> <b>84</b> (2020), 928                                      |
| Ferricopiapite             | $\text{Fe}^{3+}_{0.67}\text{Fe}^{3+}_4(\text{SO}_4)_6(\text{OH})_2(\text{H}_2\text{O})_{14}\cdot 6\text{H}_2\text{O}$                    | G  | 1939      | Chile               | <i>American Mineralogist</i> <b>24</b> (1939), 182                                                                                     | <i>Canadian Mineralogist</i> <b>44</b> (2006), 1227                                      |
| Ferricoronadite            | $\text{Pb}(\text{Mn}^{4+}_6\text{Fe}^{3+}_2)\text{O}_{16}$                                                                               | A  | 2015-093  | North Macedonia     | <i>Physics and Chemistry of Minerals</i> <b>43</b> (2016), 503                                                                         |                                                                                          |
| Ferrierite-K               | $(\text{K}, \text{Na})_5(\text{Si}_{31}\text{Al}_5)\text{O}_{72}\cdot 18\text{H}_2\text{O}$                                              | A  | 1997 s.p. | USA                 | <i>American Mineralogist</i> <b>61</b> (1976), 60                                                                                      |                                                                                          |
| Ferrierite-Mg              | $[\text{Mg}_2(\text{K}, \text{Na})_2\text{Ca}_{0.5}](\text{Si}_{29}\text{Al}_7)\text{O}_{72}\cdot 18\text{H}_2\text{O}$                  | Rn | 1997 s.p. | Canada              | <i>Transactions of the Royal Society of Canada Ser. 3</i> <b>12</b> (1918), 185                                                        | <i>American Mineralogist</i> <b>103</b> (2018), 1741                                     |
| Ferrierite-Na              | $(\text{Na}, \text{K})_5(\text{Si}_{31}\text{Al}_5)\text{O}_{72}\cdot 18\text{H}_2\text{O}$                                              | A  | 1997 s.p. | USA                 | <i>American Mineralogist</i> <b>61</b> (1976), 60                                                                                      |                                                                                          |
| Ferrierite-NH <sub>4</sub> | $(\text{NH}_4, \text{Mg}_{0.5})_5(\text{Si}_{31}\text{Al}_5\text{O}_{72})\cdot 22\text{H}_2\text{O}$                                     | A  | 2017-099  | Czech Republic      | <i>Canadian Mineralogist</i> <b>57</b> (2019), 81                                                                                      |                                                                                          |

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| Ferri-fluoro-katophorite | $\text{Na}(\text{NaCa})(\text{Mg}_4\text{Fe}^{3+})(\text{Si}_7\text{Al})\text{O}_{22}\text{F}_2$                                                                   | A  | 2015-096  | Canada     | <i>Mineralogical Magazine</i> <b>83</b> (2019), 413                                                                                    |                                                                                 |
| Ferri-fluoro-leakeite    | $\text{NaNa}_2(\text{Mg}_2\text{Fe}^{3+}_2\text{Li})\text{Si}_8\text{O}_{22}\text{F}_2$                                                                            | Rd | 2012 s.p. | Kazakhstan | <i>Mineralogical Magazine</i> <b>74</b> (2010), 521                                                                                    | <i>Mineralogical Magazine</i> <b>78</b> (2014), 861                             |
| Ferri-ghoseite           | $\square(\text{NaMn}^{2+})(\text{Mg}_4\text{Fe}^{3+})\text{Si}_8\text{O}_{22}(\text{OH})_2$                                                                        | Rd | 2012 s.p. | India      | <i>European Journal of Mineralogy</i> <b>5</b> (1993), 1153                                                                            | <i>Journal of Mineralogical and Petrological Sciences</i> <b>114</b> (2019), 33 |
| Ferri-hellandite-(Ce)    | $(\text{Ca}_3\text{Ce})\text{Ce}_2\text{Fe}^{3+}\square_2\text{B}_4\text{Si}_4\text{O}_{22}(\text{OH})_2$                                                          | A  | 2020-085  | Norway     | CNMNC Newsletter 60 - <i>Mineralogical Magazine</i> <b>85</b> (2021), 454; <i>European Journal of Mineralogy</i> <b>33</b> (2021), 203 |                                                                                 |
| Ferrihollandite          | $\text{Ba}(\text{Mn}^{4+}_6\text{Fe}^{3+}_2)\text{O}_{16}$                                                                                                         | A  | 2012 s.p. | India      | <i>Transactions of the Mining and Geological Institute of India</i> <b>1</b> (1906), 69                                                | <i>European Journal of Mineralogy</i> <b>26</b> (2014), 171                     |
| Ferrihydrite             | $\text{Fe}^{3+}_5\text{O}_7(\text{OH})$                                                                                                                            | A  | 1971-015  | Kazakhstan | <i>Izvestiya Akademii Nauk SSSR</i> <b>4</b> (1973), 23                                                                                | <i>American Mineralogist</i> <b>98</b> (2013), 848                              |
| Ferri-kaersutite         | $\text{NaCa}_2(\text{Mg}_3\text{Fe}^{3+}\text{Ti})(\text{Si}_6\text{Al}_2)\text{O}_{22}\text{O}_2$                                                                 | A  | 2014-051  | Antarctica | <i>American Mineralogist</i> <b>101</b> (2016), 461                                                                                    |                                                                                 |
| Ferri-katophorite        | $\text{Na}(\text{NaCa})(\text{Mg}_4\text{Fe}^{3+})(\text{Si}_7\text{Al})\text{O}_{22}(\text{OH})_2$                                                                | Rd | 2012 s.p. | Russia     | <i>Crystallography Reports</i> <b>48</b> (2003), 16                                                                                    |                                                                                 |
| Ferri-leakeite           | $\text{NaNa}_2(\text{Mg}_2\text{Fe}^{3+}_2\text{Li})\text{Si}_8\text{O}_{22}(\text{OH})_2$                                                                         | Rd | 2012 s.p. | India      | <i>American Mineralogist</i> <b>77</b> (1992), 1112                                                                                    |                                                                                 |
| Ferrilotharmeyerite      | $\text{CaZnFe}^{3+}(\text{AsO}_4)_2(\text{OH})(\text{H}_2\text{O})$                                                                                                | A  | 1986-024  | Namibia    | <i>Canadian Mineralogist</i> <b>30</b> (1992), 225                                                                                     | <i>European Journal of Mineralogy</i> <b>10</b> (1998), 179                     |
| Ferrimolybdate           | $\text{Fe}^{3+}_2(\text{Mo}^{6+}\text{O}_4)_3 \cdot 7\text{H}_2\text{O}$                                                                                           | G  | 1913      | Russia     | K mineralogii Alekseevskogo rudnika Minusinskogo uezda. Moscow (1913), 26 p.                                                           | <i>Spectrochimica Acta A</i> <b>130</b> (2014), 83                              |
| Ferri-mottanaite-(Ce)    | $\text{Ca}_4\text{Ce}_2\text{Fe}^{3+}(\text{Be}_{1.5}\square_{0.5})[\text{Si}_4\text{B}_4\text{O}_{22}]\text{O}_2$                                                 | A  | 2017-087a | Italy      | <i>European Journal of Mineralogy</i> <b>31</b> (2019), 799                                                                            |                                                                                 |
| Ferrimuirite             | $\text{Ba}_{10}(\text{Ca}_2\text{Fe}^{3+}_2)[\text{Si}_8\text{O}_{24}]\text{O}_2\text{Cl}_{10}$                                                                    | A  | 2023-100  | Canada     | CNMNC Newsletter 77 - <i>Mineralogical Magazine</i> <b>88</b> (2024), 203; <i>European Journal of Mineralogy</i> <b>36</b> (2024), 165 |                                                                                 |
| Ferrinatriite            | $\text{Na}_3\text{Fe}^{3+}(\text{SO}_4)_3(\text{H}_2\text{O})_3$                                                                                                   | G  | 1889      | Chile      | <i>American Journal of Science</i> <b>38</b> (1889), 244                                                                               | <i>Mineralogy and Petrology</i> <b>113</b> (2019), 555                          |
| Ferri-obertiite          | $\text{NaNa}_2(\text{Mg}_3\text{Fe}^{3+}\text{Ti})\text{Si}_8\text{O}_{22}\text{O}_2$                                                                              | A  | 2015-079  | Germany    | <i>Mineralogical Magazine</i> <b>81</b> (2017), 641                                                                                    |                                                                                 |
| Ferri-pedrizite          | $\text{NaLi}_2(\text{Mg}_2\text{Fe}^{3+}_2\text{Li})\text{Si}_8\text{O}_{22}(\text{OH})_2$                                                                         | Rd | 2012 s.p. | Spain      | <i>American Mineralogist</i> <b>87</b> (2002), 976                                                                                     |                                                                                 |
| Ferriperbøeite-(Ce)      | $(\text{CaCe}_3)(\text{Fe}^{3+}\text{Al}_2\text{Fe}^{2+})(\text{Si}_2\text{O}_7)(\text{SiO}_4)_3\text{O}(\text{OH})_2$                                             | A  | 2017-037  | Sweden     | <i>European Journal of Mineralogy</i> <b>30</b> (2018), 537                                                                            |                                                                                 |
| Ferriperbøeite-(La)      | $(\text{CaLa}_3)(\text{Fe}^{3+}\text{Al}_2\text{Fe}^{2+})(\text{Si}_2\text{O}_7)(\text{SiO}_4)_3\text{O}(\text{OH})_2$                                             | A  | 2018-106  | Russia     | <i>Mineralogical Magazine</i> <b>84</b> (2020), 593                                                                                    |                                                                                 |
| Ferriphoxite             | $[(\text{NH}_4)_2\text{K}(\text{H}_2\text{O})][\text{Fe}^{3+}(\text{HPO}_4)_2(\text{C}_2\text{O}_4)]$                                                              | A  | 2023-096  | USA        | <i>Mineralogical Magazine</i> <b>89</b> (2025), 162                                                                                    |                                                                                 |
| Ferriprehnite            | $\text{Ca}_2\text{Fe}^{3+}(\text{AlSi}_3)\text{O}_{10}(\text{OH})_2$                                                                                               | A  | 2020-057  | Japan      | <i>Journal of Mineralogical and Petrological Sciences</i> <b>116</b> (2021), 129                                                       |                                                                                 |
| Ferripyrophyllite        | $\text{Fe}^{3+}\text{Si}_2\text{O}_5(\text{OH})$                                                                                                                   | A  | 1978-062  | Germany    | <i>Chemie der Erde</i> <b>38</b> (1979), 324                                                                                           | <i>Izvestiya Akademii Nauk SSSR, Seriya Geologicheskaya</i> <b>2</b> (1980), 5  |
| Ferrirockbridgeite       | $(\text{Fe}^{3+}_{0.67}\square_{0.33})_2(\text{Fe}^{3+})_3(\text{PO}_4)_3(\text{OH})_4(\text{H}_2\text{O})$                                                        | A  | 2018-065  | USA        | <i>European Journal of Mineralogy</i> <b>31</b> (2019), 585                                                                            |                                                                                 |
| Ferrisanidine            | $\text{K}(\text{Fe}^{3+}\text{Si}_3\text{O}_8)$                                                                                                                    | A  | 2019-052  | Russia     | <i>Minerals</i> <b>9</b> (2019), 770                                                                                                   |                                                                                 |
| Ferrisepiolite           | $(\text{Fe}^{3+}, \text{Fe}^{2+}, \text{Mg})_4[(\text{Si}, \text{Fe}^{3+})_6\text{O}_{15}](\text{O}, \text{OH})_2(\text{H}_2\text{O})_2 \cdot 4\text{H}_2\text{O}$ | A  | 2010-061  | China      | <i>European Journal of Mineralogy</i> <b>25</b> (2013), 177                                                                            |                                                                                 |
| Ferristrunzite           | $\text{Fe}^{3+}\text{Fe}^{3+}_2(\text{PO}_4)_2(\text{OH})_3(\text{H}_2\text{O})_5$                                                                                 | A  | 1986-023  | Belgium    | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1987), 453                                                                          | <i>Mineralogical Magazine</i> <b>82</b> (2018), 291                             |
| Ferrisurite              | $\text{Pb}_{2.4}\text{Fe}^{3+}_2\text{Si}_4\text{O}_{10}(\text{CO}_3)_{1.7}(\text{OH})_3 \cdot n\text{H}_2\text{O}$                                                | A  | 1990-056  | USA        | <i>American Mineralogist</i> <b>77</b> (1992), 1107                                                                                    |                                                                                 |

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| Ferrisymplesite             | $\text{Fe}^{3+}_3(\text{AsO}_4)_2(\text{OH})_3 \cdot 5\text{H}_2\text{O}$                                                  | Q  | 1924      | Canada         | <i>University of Toronto Studies, Geological Series</i> <b>17</b> (1924), 16       |                                                                                             |
| Ferri-taramite              | $\text{Na}(\text{NaCa})(\text{Mg}_3\text{Fe}^{3+}_2)(\text{Si}_6\text{Al}_2)\text{O}_{22}(\text{OH})_2$                    | A  | 2021-046  | Sweden         | <i>European Journal of Mineralogy</i> <b>34</b> (2022), 451                        |                                                                                             |
| Ferrivauxite                | $\text{Fe}^{3+}\text{Al}_2(\text{PO}_4)_2(\text{OH})_3(\text{H}_2\text{O})_3 \cdot 2\text{H}_2\text{O}$                    | A  | 2014-003  | Bolivia        | <i>Mineralogical Magazine</i> <b>80</b> (2016), 311                                |                                                                                             |
| Ferri-winchite              | $\square(\text{NaCa})(\text{Mg}_4\text{Fe}^{3+})\text{Si}_8\text{O}_{22}(\text{OH})_2$                                     | Rd | 2012 s.p. | Russia         | <i>Zapiski Rossiyskogo Mineralogicheskogo Obshchestva</i> <b>134(3)</b> (2005), 74 | <i>Canadian Mineralogist</i> <b>39</b> (2001), 171                                          |
| Ferro-actinolite            | $\square\text{Ca}_2(\text{Mg}_{2.5-0.0}\text{Fe}^{2+}_{2.5-5.0})\text{Si}_8\text{O}_{22}(\text{OH})_2$                     | Rd | 2012 s.p. | unknown        | <i>Sveriges Geologiska Undersökning</i> <b>40</b> (1946), 1                        | <i>American Mineralogist</i> <b>85</b> (2000), 1239                                         |
| Ferroåkermanite             | $\text{Ca}_2\text{FeSi}_2\text{O}_7$                                                                                       | A  | 2024-080  | Israel         | <i>Mineralogical Magazine</i> <b>90</b> (2026), 286                                | <a href="https://doi.org/10.1180/mgm.2025.10120">https://doi.org/10.1180/mgm.2025.10120</a> |
| Ferroalluaudite             | $\text{NaFe}^{2+}\text{Fe}^{3+}_2(\text{PO}_4)_3$                                                                          | Rn | 2007 s.p. | France / USA ? | <i>American Mineralogist</i> <b>42</b> (1957), 661                                 | <i>Mineralogical Magazine</i> <b>43</b> (1979), 227                                         |
| Ferroaluminoceladonite      | $\text{KFe}^{2+}\text{AlSi}_4\text{O}_{10}(\text{OH})_2$                                                                   | Rn | 1995-019  | New Zealand    | <i>American Mineralogist</i> <b>82</b> (1997), 503                                 |                                                                                             |
| Ferro-anthophyllite         | $\square\text{Fe}^{2+}_2\text{Fe}^{2+}_5\text{Si}_8\text{O}_{22}(\text{OH})_2$                                             | Rd | 2012 s.p. | USA            | <i>Proceedings of the United States National Museum</i> <b>59</b> (1921), 397      |                                                                                             |
| Ferroberaunite              | $\text{Fe}^{2+}\text{Fe}^{3+}_5(\text{PO}_4)_4(\text{OH})_5(\text{H}_2\text{O})_4 \cdot 2\text{H}_2\text{O}$               | A  | 2021-036  | United Kingdom | <i>Mineralogical Magazine</i> <b>86</b> (2022), 363                                |                                                                                             |
| Ferrobobfergusonite         | $\square\text{Na}_2\text{Fe}^{2+}_5\text{Fe}^{3+}\text{Al}(\text{PO}_4)_6$                                                 | A  | 2017-006  | USA            | <i>Canadian Mineralogist</i> <b>59</b> (2021), 617                                 |                                                                                             |
| Ferro-bosiite               | $\text{NaFe}^{3+}_3(\text{Al}_4\text{Fe}^{2+}_2)(\text{Si}_6\text{O}_{18})(\text{BO}_3)_3(\text{OH})_3\text{O}$            | A  | 2022-069  | Mozambique     | <i>Mineralogical Magazine</i> <b>89</b> (2025), 886                                |                                                                                             |
| Ferrobustamite              | $\text{CaFe}^{2+}_2\text{Si}_2\text{O}_6$                                                                                  | G  | 1937      | United Kingdom | <i>Mineralogical Magazine</i> <b>24</b> (1937), 569                                | <i>Physics and Chemistry of Minerals</i> <b>46</b> (2019), 133                              |
| Ferrocapholite              | $\text{Fe}^{2+}\text{Al}_2\text{Si}_2\text{O}_6(\text{OH})_4$                                                              | G  | 1951      | Indonesia      | <i>American Mineralogist</i> <b>36</b> (1951), 736                                 | <i>American Mineralogist</i> <b>106</b> (2021), 123                                         |
| Ferroceladonite             | $\text{KFe}^{2+}\text{Fe}^{3+}\text{Si}_4\text{O}_{10}(\text{OH})_2$                                                       | A  | 1995-018  | New Zealand    | <i>American Mineralogist</i> <b>82</b> (1997), 503                                 |                                                                                             |
| Ferrochiavennite            | $\text{Ca}_{1-2}\text{Fe}[(\text{Si}, \text{Al}, \text{Be})_5\text{Be}_2\text{O}_{13}(\text{OH})_2](\text{H}_2\text{O})_2$ | A  | 2012-039  | Norway         | <i>Canadian Mineralogist</i> <b>51</b> (2013), 285                                 | <i>Canadian Mineralogist</i> <b>54</b> (2016), 21                                           |
| Ferrodimolybdenite          | $\text{FeMo}_2\text{S}_4$                                                                                                  | A  | 2023-019  | Jordan         | <i>Mineralogical Magazine</i> <b>89</b> (2025), 242                                |                                                                                             |
| Ferro-edenite               | $\text{NaCa}_2\text{Fe}^{2+}_5(\text{Si}_7\text{Al})\text{O}_{22}(\text{OH})_2$                                            | Rd | 2012 s.p. | unknown        | <i>Sveriges Geologiska Undersökning</i> <b>40</b> (1946), 1                        | <i>Canadian Mineralogist</i> <b>23</b> (1985), 447                                          |
| Ferroefremovite             | $(\text{NH}_4)_2\text{Fe}^{2+}_2(\text{SO}_4)_3$                                                                           | A  | 2019-008  | Italy          | <i>Canadian Mineralogist</i> <b>59</b> (2021), 59                                  |                                                                                             |
| Ferroericssonite            | $\text{BaFe}^{2+}_2\text{Fe}^{3+}(\text{Si}_2\text{O}_7)\text{O}(\text{OH})$                                               | A  | 2010-025  | USA            | <i>Canadian Mineralogist</i> <b>49</b> (2011), 587                                 | <i>Canadian Mineralogist</i> <b>52</b> (2014), 569                                          |
| Ferro-ferri-fluoro-leakeite | $\text{NaNa}_2(\text{Fe}^{2+}_2\text{Fe}^{3+}_2\text{Li})\text{Si}_8\text{O}_{22}\text{F}_2$                               | Rd | 2012 s.p. | USA            | <i>American Mineralogist</i> <b>81</b> (1996), 226                                 |                                                                                             |
| Ferro-ferri-holmquistite    | $\square\text{Li}_2(\text{Fe}^{2+}_3\text{Fe}^{3+}_2)\text{Si}_8\text{O}_{22}(\text{OH})_2$                                | A  | 2022-020  | Japan          | <i>European Journal of Mineralogy</i> <b>34</b> (2022), 425                        |                                                                                             |
| Ferro-ferri-hornblende      | $\square\text{Ca}_2(\text{Fe}^{2+}_4\text{Fe}^{3+})(\text{Si}_7\text{Al})\text{O}_{22}(\text{OH})_2$                       | A  | 2015-054  | Italy          | <i>Mineralogical Magazine</i> <b>80</b> (2016), 1233                               |                                                                                             |
| Ferro-ferri-katophorite     | $\text{Na}(\text{NaCa})(\text{Fe}^{2+}_4\text{Fe}^{3+})(\text{Si}_7\text{Al})\text{O}_{22}(\text{OH})_2$                   | A  | 2016-008  | Argentina      | <i>Mineralogical Magazine</i> <b>87</b> (2023), 324                                |                                                                                             |
| Ferro-ferri-nybøite         | $\text{NaNa}_2(\text{Fe}^{2+}_3\text{Fe}^{3+}_2)(\text{Si}_7\text{Al})\text{O}_{22}(\text{OH})_2$                          | A  | 2013-072  | Canada         | <i>Canadian Mineralogist</i> <b>52</b> (2014), 1019                                | <i>Canadian Mineralogist</i> <b>55</b> (2017), 515                                          |
| Ferro-ferri-obertiite       | $\text{NaNa}_2(\text{Fe}^{2+}_3\text{Fe}^{3+}\text{Ti})\text{Si}_8\text{O}_{22}\text{O}_2$                                 | Rd | 2012 s.p. | USA            | <i>Canadian Mineralogist</i> <b>48</b> (2010), 301                                 | <i>Canadian Mineralogist</i> <b>36</b> (1998), 1253                                         |
| Ferro-ferri-pedrizite       | $\text{NaLi}_2(\text{Fe}^{2+}_2\text{Fe}^{3+}_2\text{Li})\text{Si}_8\text{O}_{22}(\text{OH})_2$                            | Rd | 2012 s.p. | Spain          | <i>Canadian Mineralogist</i> <b>41</b> (2003), 1345                                |                                                                                             |
| Ferrofettelite              | $[\text{Ag}_6\text{As}_2\text{S}_7][\text{Ag}_{10}\text{FeAs}_2\text{S}_8]$                                                | A  | 2021-094  | Germany        | <i>Mineralogical Magazine</i> <b>86</b> (2022), 340                                |                                                                                             |
| Ferro-fluoro-edenite        | $\text{NaCa}_2\text{Fe}^{2+}_5(\text{Si}_7\text{AlO}_{22})\text{F}_2$                                                      | A  | 2020-058  | Italy          | <i>Canadian Mineralogist</i> <b>59</b> (2021), 741                                 |                                                                                             |
| Ferro-fluoro-pedrizite      | $\text{NaLi}_2(\text{Fe}^{2+}_2\text{Al}_2\text{Li})\text{Si}_8\text{O}_{22}\text{F}_2$                                    | Rd | 2012 s.p. | Russia         | <i>Mineralogical Magazine</i> <b>73</b> (2009), 487                                |                                                                                             |
| Ferro-gedrite               | $\square\text{Fe}^{2+}_2(\text{Fe}^{2+}_3\text{Al}_2)(\text{Si}_6\text{Al}_2)\text{O}_{22}(\text{OH})_2$                   | Rd | 2012 s.p. | France         | <i>Geological Magazine</i> <b>76</b> (1939), 326                                   | <i>Bulletin of the National Science Museum, Ser. C</i> <b>6</b> (1979), 107                 |

|                     |                                                                                                                                                                |    |           |                     |                                                                                                                                        |                                                                                      |
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| Ferro-glaucophane   | $\square\text{Na}_2(\text{Fe}^{2+}_3\text{Al}_2)\text{Si}_8\text{O}_{22}(\text{OH})_2$                                                                         | Rd | 2012 s.p. | Italy               | <i>Journal of The Faculty of Sciences, University of Tokyo, Section II</i> <b>11</b> (1957), 57                                        | <i>Canadian Mineralogist</i> <b>17</b> (1979), 1                                     |
| Ferrohexahydrite    | $\text{Fe}^{2+}(\text{SO}_4)(\text{H}_2\text{O})_6$                                                                                                            | A  | 1967 s.p. | Ukraine             | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>91</b> (1962), 490                                                       |                                                                                      |
| Ferrohögbomite-2N2S | $(\text{Fe}, \text{Mg}, \text{Zn}, \text{Al})_3(\text{Al}, \text{Ti}, \text{Fe})_8\text{O}_{15}(\text{OH})$                                                    | A  | 2001-048  | Algeria             | <i>European Journal of Mineralogy</i> <b>14</b> (2002), 957                                                                            | <i>American Mineralogist</i> <b>67</b> (1982), 373                                   |
| Ferro-holmquistite  | $\square\text{Li}_2(\text{Fe}^{2+}_3\text{Al}_2)\text{Si}_8\text{O}_{22}(\text{OH})_2$                                                                         | Rd | 2012 s.p. | Australia           | <i>American Mineralogist</i> <b>90</b> (2005), 1167                                                                                    | <i>Journal of Mineralogical and Petrological Sciences</i> <b>121</b> (2026), 251128b |
| Ferro-hornblende    | $\square\text{Ca}_2(\text{Fe}^{2+}_4\text{Al})(\text{Si}_7\text{Al})\text{O}_{22}(\text{OH})_2$                                                                | Rd | 2012 s.p. | unknown             | original paper?                                                                                                                        | <i>Indian Minerals</i> <b>41</b> (1987), 32                                          |
| Ferroindialite      | $\text{Fe}^{2+}_2\text{Al}_3(\text{Si}_5\text{AlO}_{18})$                                                                                                      | A  | 2013-016  | Germany             | <i>Zapiski Rossiyskogo Mineralogicheskogo Obshchestva</i> <b>143(1)</b> (2014), 46                                                     | <i>Mineralogy and Petrology</i> <b>108</b> (2014), 469                               |
| Ferroinnelite       | $\text{Ba}_4\text{Ti}_2\text{Na}(\text{NaFe}^{2+})\text{Ti}(\text{Si}_2\text{O}_7)_2[(\text{SO}_4)(\text{PO}_4)]\text{O}_2[\text{O}(\text{OH})]$               | A  | 2024-029  | Russia              | <i>Mineralogical Magazine</i> <b>89</b> (2025), 285                                                                                    |                                                                                      |
| Ferro-katophorite   | $\text{Na}(\text{NaCa})(\text{Fe}^{2+}_4\text{Al})(\text{Si}_7\text{Al})\text{O}_{22}(\text{OH})_2$                                                            | Rd | 2012 s.p. | Norway              | <i>Videnskabselskabets Skrifter. I. Matematisk-Naturvidenskabelig Klasse</i> <b>4</b> (1894), 27                                       |                                                                                      |
| Ferrokentbrooksite  | $\text{Na}_{15}\text{Ca}_6\text{Fe}^{2+}_3\text{Zr}_3\text{Nb}(\text{Si}_{25}\text{O}_{73})(\text{O}, \text{OH}, \text{H}_2\text{O})_3(\text{F}, \text{Cl})_2$ | A  | 1999-046  | Canada              | <i>Canadian Mineralogist</i> <b>41</b> (2003), 55                                                                                      |                                                                                      |
| Ferrokösterite      | $\text{Cu}_2\text{FeSnS}_4$                                                                                                                                    | Rn | 1985-012  | United Kingdom      | <i>Canadian Mineralogist</i> <b>27</b> (1989), 673                                                                                     |                                                                                      |
| Ferrokinošitalite   | $\text{BaFe}^{2+}_3(\text{Si}_2\text{Al}_2)\text{O}_{10}(\text{OH})_2$                                                                                         | A  | 1999-026  | South Africa        | <i>Canadian Mineralogist</i> <b>37</b> (1999), 1445                                                                                    |                                                                                      |
| Ferrolaueite        | $\text{Fe}^{2+}\text{Fe}^{3+}_2(\text{PO}_4)_2(\text{OH})_2(\text{H}_2\text{O})_6 \cdot 2\text{H}_2\text{O}$                                                   | A  | 1987-046a | USA                 | <i>Australian Journal of Mineralogy</i> <b>16</b> (2012), 69                                                                           |                                                                                      |
| Ferromerrillite     | $\text{Ca}_9\text{NaFe}^{2+}(\text{PO}_4)_7$                                                                                                                   | A  | 2006-039  | India (meteorite)   | <i>European Journal of Mineralogy</i> <b>28</b> (2016), 125                                                                            |                                                                                      |
| Ferronickelplatinum | $\text{Pt}_2\text{FeNi}$                                                                                                                                       | A  | 1982-071  | Russia              | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>112</b> (1983), 487                                                      |                                                                                      |
| Ferronigerite-2N1S  | $(\text{Al}, \text{Fe}, \text{Zn})_2(\text{Al}, \text{Sn})_6\text{O}_{11}(\text{OH})$                                                                          | Rn | 2001 s.p. | Nigeria             | <i>Mineralogical Magazine</i> <b>28</b> (1947), 118                                                                                    | <i>Crystallography Reports</i> <b>40</b> (1995), 587                                 |
| Ferronigerite-6N6S  | $(\text{Al}, \text{Fe}, \text{Zn})_3(\text{Al}, \text{Sn}, \text{Fe})_8\text{O}_{15}(\text{OH})$                                                               | Rn | 2001 s.p. | Finland             | <i>Bulletin of the Geological Society of Finland</i> <b>49</b> (1977), 151                                                             | <i>American Mineralogist</i> <b>64</b> (1979), 1255                                  |
| Ferronordite-(Ce)   | $\text{Na}_3\text{SrCeFe}^{2+}\text{Si}_6\text{O}_{17}$                                                                                                        | A  | 1997-008  | Russia              | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>127(1)</b> (1998), 32                                                  | <i>Crystallography Reports</i> <b>44</b> (1999), 565                                 |
| Ferronordite-(La)   | $\text{Na}_3\text{SrLaFe}^{2+}\text{Si}_6\text{O}_{17}$                                                                                                        | A  | 2000-015  | Russia              | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>130(2)</b> (2001), 53                                                  |                                                                                      |
| Ferro-papikeite     | $\text{NaFe}^{2+}_2(\text{Fe}^{2+}_3\text{Al}_2)(\text{Si}_5\text{Al}_3)\text{O}_{22}(\text{OH})_2$                                                            | A  | 2020-021  | Sweden              | <i>American Mineralogist</i> <b>107</b> (2022), 306                                                                                    |                                                                                      |
| Ferro-pargasite     | $\text{NaCa}_2(\text{Fe}^{2+}_4\text{Al})(\text{Si}_6\text{Al}_2)\text{O}_{22}(\text{OH})_2$                                                                   | Rd | 2012 s.p. | United Kingdom      | <i>American Mineralogist</i> <b>46</b> (1961), 340                                                                                     | <i>American Mineralogist</i> <b>109</b> (2024), 992                                  |
| Ferro-pedrizite     | $\text{NaLi}_2(\text{Fe}^{2+}_2\text{Al}_2\text{Li})\text{Si}_8\text{O}_{22}(\text{OH})_2$                                                                     | A  | 2014-037  | Russia              | <i>European Journal of Mineralogy</i> <b>27</b> (2015), 417                                                                            | <i>Crystallography Reports</i> <b>60</b> (2015), 493                                 |
| Ferropseudobrookite | $\text{Fe}^{2+}\text{Ti}_2\text{O}_5$                                                                                                                          | A  | 2026 s.p. | Denmark (Greenland) | CNMNC Newsletter 89 - <i>Mineralogical Magazine</i> <b>90</b> (2026), 481; <i>European Journal of Mineralogy</i> <b>38</b> (2026), 117 |                                                                                      |
| Ferroqingheite      | $\text{NaNaFe}^{2+}(\text{MgAl})(\text{PO}_4)_3$                                                                                                               | Rn | 2009-076  | Brazil              | <i>European Journal of Mineralogy</i> <b>22</b> (2010), 459                                                                            |                                                                                      |

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| Ferrorhodonite       | $\text{CaMn}_3\text{Fe}(\text{Si}_5\text{O}_{15})$                                                                                         | A  | 2016-016  | Australia   | <i>Physics and Chemistry of Minerals</i> <b>44</b> (2017), 323                                                  | <i>Mineralogical Magazine</i> <b>83</b> (2019), 829       |
| Ferro-richterite     | $\text{Na}(\text{NaCa})\text{Fe}^{2+}_5\text{Si}_8\text{O}_{22}(\text{OH})_2$                                                              | Rd | 2012 s.p. | unknown     | <i>Sveriges Geologiska Undersökning</i> <b>40</b> (1946), 1                                                     |                                                           |
| Ferrorockbridgeite   | $(\text{Fe}^{2+}, \text{Mn}^{2+})_2\text{Fe}^{3+}_3(\text{PO}_4)_3(\text{OH})_4(\text{H}_2\text{O})$                                       | A  | 2018-004  | Germany     | <i>European Journal of Mineralogy</i> <b>31</b> (2019), 389                                                     |                                                           |
| Ferrorosemaryite     | $\square\text{NaFe}^{2+}(\text{Fe}^{3+}\text{Al})(\text{PO}_4)_3$                                                                          | A  | 2003-063  | Rwanda      | <i>European Journal of Mineralogy</i> <b>17</b> (2005), 749                                                     |                                                           |
| Ferrosaponite        | $\text{Ca}_{0.3}(\text{Fe}^{2+}, \text{Mg}, \text{Fe}^{3+})_3(\text{Si}, \text{Al})_4\text{O}_{10}(\text{OH})_2 \cdot 4\text{H}_2\text{O}$ | A  | 2002-028  | Russia      | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>132(2)</b> (2003), 68                           |                                                           |
| Ferroselite          | $\text{FeSe}_2$                                                                                                                            | G  | 1955      | Russia      | <i>Doklady Akademii Nauk SSSR</i> <b>105</b> (1955), 812                                                        | <i>Crystals</i> <b>8</b> (2018), 289                      |
| Ferrosilite          | $\text{Fe}^{2+}_2\text{Si}_2\text{O}_6$                                                                                                    | Rn | 1988 s.p. | unknown     | <i>American Journal of Science</i> <b>30</b> (1935), 481                                                        | <i>American Mineralogist</i> <b>61</b> (1976), 38         |
| Ferroskutterudite    | $\text{FeAs}_3$                                                                                                                            | A  | 2006-032  | Russia      | <i>Transactions (Doklady) of the Russian Academy of Sciences, Earth Science Section</i> <b>417</b> (2007), 1278 |                                                           |
| Ferrostalderite      | $\text{CuFe}_2\text{TlAs}_2\text{S}_6$                                                                                                     | A  | 2014-090  | Switzerland | <i>Mineralogical Magazine</i> <b>80</b> (2016), 175                                                             |                                                           |
| Ferrostrunzite       | $\text{Fe}^{2+}\text{Fe}^{3+}_2(\text{PO}_4)_2(\text{OH})_2(\text{H}_2\text{O})_6$                                                         | A  | 1983-003  | USA         | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1983), 524                                                   | <i>Mineralogical Magazine</i> <b>82</b> (2018), 291       |
| Ferrotaaffeite-2N'2S | $(\text{Fe}^{2+}, \text{Mg}, \text{Zn})_3\text{Al}_8\text{BeO}_{16}$                                                                       | A  | 2011-025  | China       | <i>Canadian Mineralogist</i> <b>50</b> (2012), 21                                                               |                                                           |
| Ferrotaaffeite-6N'3S | $\text{BeFe}^{2+}_2\text{Al}_6\text{O}_{12}$                                                                                               | Rn | 2001 s.p. | Finland     | <i>Canadian Mineralogist</i> <b>19</b> (1981), 311                                                              |                                                           |
| Ferro-taramite       | $\text{Na}(\text{NaCa})(\text{Fe}^{2+}_3\text{Al}_2)(\text{Si}_6\text{Al}_2)\text{O}_{22}(\text{OH})_2$                                    | Rd | 2012 s.p. | Norway      | <i>American Mineralogist</i> <b>92</b> (2007), 1428                                                             |                                                           |
| Ferrotitanowodginite | $\text{Fe}^{2+}\text{TiTa}_2\text{O}_8$                                                                                                    | A  | 1998-028  | Argentina   | <i>American Mineralogist</i> <b>84</b> (1999), 773                                                              |                                                           |
| Ferrotchilinite      | $[\text{FeS}] \cdot \approx 0.85[\text{Fe}^{2+}(\text{OH})_2]$                                                                             | A  | 2010-080  | Russia      | <i>Zapiski Rossiyskogo Mineralogicheskogo Obshchestva</i> <b>141(4)</b> (2012), 1                               |                                                           |
| Ferrotorreyserite    | $\text{Rh}_5\text{Fe}_{10}\text{S}_{16}$                                                                                                   | A  | 2021-055  | Russia      | <i>Minerals</i> <b>11</b> (2021), 1420                                                                          |                                                           |
| Ferro-tschermakite   | $\square\text{Ca}_2(\text{Fe}^{2+}_3\text{Al}_2)(\text{Si}_6\text{Al}_2)\text{O}_{22}(\text{OH})_2$                                        | A  | 2016-116  | France      | <i>European Journal of Mineralogy</i> <b>30</b> (2018), 171                                                     | <i>American Mineralogist</i> <b>107</b> (2022), 765       |
| Ferrotychite         | $\text{Na}_6\text{Fe}^{2+}_2(\text{CO}_3)_4(\text{SO}_4)$                                                                                  | A  | 1980-050  | Russia      | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>110</b> (1981), 600                               | <i>Doklady Akademii Nauk SSSR</i> <b>249</b> (1979), 1365 |
| Ferrovalleriite      | $2[(\text{Fe}, \text{Cu})\text{S}] \cdot 1.53[(\text{Fe}, \text{Al}, \text{Mg})(\text{OH})_2]$                                             | A  | 2011-068  | Russia      | <i>Zapiski Rossiyskogo Mineralogicheskogo Obshchestva</i> <b>141(6)</b> (2012), 29                              |                                                           |
| Ferrovorontsovite    | $(\text{Fe}_5\text{Cu})\text{TlAs}_4\text{S}_{12}$                                                                                         | A  | 2017-007  | Russia      | <i>Minerals</i> <b>8</b> (2018), 185                                                                            |                                                           |
| Ferrowodginite       | $\text{Fe}^{2+}\text{Sn}^{4+}\text{Ta}_2\text{O}_8$                                                                                        | A  | 1984-006  | Finland     | <i>Canadian Mineralogist</i> <b>30</b> (1992), 633                                                              |                                                           |
| Ferrowyllieite       | $\text{NaNaFe}^{2+}(\text{Fe}^{2+}\text{Al})(\text{PO}_4)_3$                                                                               | A  | 1979 s.p. | USA         | <i>Mineralogical Record</i> <b>4</b> (1973), 131                                                                | <i>Mineralogical Magazine</i> <b>43</b> (1979), 227       |
| Ferruccite           | $\text{NaBF}_4$                                                                                                                            | G  | 1933      | Italy       | <i>Periodico di Mineralogia</i> <b>4</b> (1933), 410                                                            | <i>Acta Crystallographica</i> <b>B24</b> (1968), 1703     |
| Fersmanite           | $\text{Ca}_4(\text{Na}, \text{Ca})_4(\text{Ti}, \text{Nb})_4(\text{Si}_2\text{O}_7)_2\text{O}_8\text{F}_3$                                 | G  | 1929      | Russia      | <i>Doklady Akademii Nauk SSSR</i> <b>12</b> (1929), 297                                                         | <i>Canadian Mineralogist</i> <b>40</b> (2002), 1421       |
| Fersmite             | $\text{CaNb}_2\text{O}_6$                                                                                                                  | Rd | 2022 s.p. | Russia      | <i>Comptes Rendus (Doklady) de l'Académie des Sciences de l'URSS</i> <b>52</b> (1946), 69                       | <i>Crystallography Reports</i> <b>46</b> (2001), 194      |
| Feruvite             | $\text{CaFe}^{2+}_3(\text{Al}_5\text{Mg})(\text{Si}_6\text{O}_{18})(\text{BO}_3)_3(\text{OH})_3(\text{OH})$                                | A  | 1987-057  | New Zealand | <i>Canadian Mineralogist</i> <b>27</b> (1989), 199                                                              | <i>Canadian Mineralogist</i> <b>52</b> (2014), 285        |

|               |                                                                                                                                                     |    |           |                     |                                                                                                                    |                                                                           |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|----|-----------|---------------------|--------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|
| Fervanite     | $\text{Fe}^{3+}_4\text{V}^{5+}_4\text{O}_{16}\cdot 5\text{H}_2\text{O}$                                                                             | G  | 1931      | USA                 | <i>American Mineralogist</i> <b>16</b> (1931), 273                                                                 | <i>American Mineralogist</i> <b>75</b> (1990), 508                        |
| Fetiasite     | $(\text{Fe}^{2+}, \text{Fe}^{3+}, \text{Ti}^{4+})_3\text{O}_2\text{As}^{3+}_2\text{O}_5$                                                            | A  | 1991-019  | Italy / Switzerland | <i>American Mineralogist</i> <b>79</b> (1994), 996                                                                 |                                                                           |
| Fettelite     | $[\text{Ag}_6\text{As}_2\text{S}_7][\text{Ag}_{10}\text{HgAs}_2\text{S}_8]$                                                                         | A  | 1994-056  | Germany             | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1996), 313                                                      | <i>American Mineralogist</i> <b>96</b> (2011), 792                        |
| Feynmanite    | $\text{Na}(\text{UO}_2)(\text{SO}_4)(\text{OH})(\text{H}_2\text{O})_{3.5}$                                                                          | A  | 2017-035  | USA                 | <i>Mineralogical Magazine</i> <b>83</b> (2019), 153                                                                |                                                                           |
| Fianelite     | $\text{Mn}^{2+}_2\text{V}_2\text{O}_7(\text{H}_2\text{O})_2$                                                                                        | A  | 1995-016  | Switzerland         | <i>American Mineralogist</i> <b>81</b> (1996), 1270                                                                |                                                                           |
| Fibroferrite  | $\text{Fe}^{3+}(\text{SO}_4)(\text{OH})(\text{H}_2\text{O})_2\cdot 3\text{H}_2\text{O}$                                                             | G  | 1833      | Chile               | <i>Annalen der Physik und Chemie</i> <b>27</b> (1833), 309                                                         | <i>European Journal of Mineralogy</i> <b>28</b> (2016), 943               |
| Fichtelite    | $\text{C}_{19}\text{H}_{34}$                                                                                                                        | G  | 1841      | Germany             | <i>Justus Liebigs Annalen der Chemie</i> <b>37</b> (1841), 304                                                     | <i>Canadian Mineralogist</i> <b>33</b> (1995), 7                          |
| Fiedlerite    | $\text{Pb}_3\text{Cl}_4\text{F}(\text{OH})(\text{H}_2\text{O})$                                                                                     | Rd | 1994 s.p. | Greece              | <i>Sitzungsberichte der Niederrheinischen Gesellschaft für Natur- und Heilkunde zu Bonn</i> <b>102</b> (1887), 149 | <i>Doklady Earth Sciences</i> <b>486</b> (2019), 517                      |
| Fiemmeite     | $\text{Cu}_2(\text{C}_2\text{O}_4)(\text{OH})_2(\text{H}_2\text{O})_2$                                                                              | A  | 2017-115  | Italy               | <i>Minerals</i> <b>8</b> (2018), 248                                                                               |                                                                           |
| Filatovite    | $\text{K}(\text{Al}, \text{Zn})_2(\text{As}, \text{Si})_2\text{O}_8$                                                                                | A  | 2002-052  | Russia              | <i>European Journal of Mineralogy</i> <b>16</b> (2004), 533                                                        | <i>Mineralogical Magazine</i> <b>88</b> (2024), 176                       |
| Filipstadite  | $(\text{Fe}^{3+}_{0.5}\text{Sb}^{5+}_{0.5})\text{Mn}^{2+}_2\text{O}_4$                                                                              | Rd | 1987-010  | Sweden              | <i>American Mineralogist</i> <b>73</b> (1988), 413                                                                 | <i>American Mineralogist</i> <b>98</b> (2013), 361                        |
| Fillowite     | $\text{Na}_3\text{CaMn}^{2+}_{11}(\text{PO}_4)_9$                                                                                                   | Rd | 1879      | USA                 | <i>American Journal of Science and Arts</i> <b>17</b> (1879), 359                                                  | <i>American Mineralogist</i> <b>66</b> (1981), 827                        |
| Finchite      | $\text{Sr}(\text{UO}_2)_2(\text{V}_2\text{O}_8)(\text{H}_2\text{O})_4\cdot \text{H}_2\text{O}$                                                      | A  | 2017-052  | USA                 | <i>American Mineralogist</i> <b>108</b> (2023), 383                                                                |                                                                           |
| Finescreekite | $[\text{Pb}_4(\text{OH})_4](\text{S}_2\text{O}_3)_2$                                                                                                | A  | 2022-030  | USA                 | <i>Canadian Journal of Mineralogy and Petrology</i> <b>62</b> (2024), 379                                          |                                                                           |
| Fingerite     | $\text{Cu}_{11}\text{O}_2(\text{VO}_4)_6$                                                                                                           | A  | 1983-064  | El Salvador         | <i>American Mineralogist</i> <b>70</b> (1985), 193                                                                 | <i>American Mineralogist</i> <b>70</b> (1985), 197                        |
| Finnemanite   | $\text{Pb}_5(\text{As}^{3+}\text{O}_3)_3\text{Cl}$                                                                                                  | G  | 1923      | Sweden              | <i>Geologiska Föreningens i Stockholm Förhandlingar</i> <b>45</b> (1923), 160                                      | <i>Mineralogical Magazine</i> <b>78</b> (2014), 325                       |
| Fischesserite | $\text{Ag}_3\text{AuSe}_2$                                                                                                                          | A  | 1971-010  | Czech Republic      | <i>Bulletin de la Société Française de Minéralogie et de Cristallographie</i> <b>94</b> (1971), 381                | <i>Physics and Chemistry of Minerals</i> <b>40</b> (2013), 229            |
| Fivegite      | $\text{K}_4\text{Ca}_2[\text{AlSi}_7\text{O}_{17}(\text{O}_{2-x}(\text{OH})_x)][(\text{H}_2\text{O})_{2-x}(\text{OH})_x]\text{Cl}$<br>( $x = 0-2$ ) | A  | 2009-067  | Russia              | <i>Zapiski Rossiyskogo Mineralogicheskogo Obshchestva</i> <b>139(4)</b> (2010), 47                                 |                                                                           |
| Fizélyite     | $\text{Ag}_5\text{Pb}_{14}\text{Sb}_{21}\text{S}_{48}$                                                                                              | G  | 1923      | Romania             | <i>Mathematikai és Természettudományi Értesítő</i> <b>40</b> (1923), 18                                            | <i>Canadian Mineralogist</i> <b>47</b> (2009), 1257                       |
| Flaggite      | $\text{Pb}_4\text{Cu}^{2+}_4\text{Te}^{6+}_2(\text{SO}_4)_2\text{O}_{11}(\text{OH})_2(\text{H}_2\text{O})$                                          | A  | 2021-044  | USA                 | <i>Mineralogical Magazine</i> <b>86</b> (2022), 397                                                                |                                                                           |
| Flagstaffite  | $\text{C}_{10}\text{H}_{22}\text{O}_3$                                                                                                              | G  | 1920      | USA                 | <i>American Mineralogist</i> <b>5</b> (1920), 169                                                                  | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1965), 19              |
| Flamite       | $\text{Ca}_{8-x}(\text{Na}, \text{K})_x(\text{SiO}_4)_{4-x}(\text{PO}_4)_x$                                                                         | A  | 2013-122  | Israel              | <i>Mineralogical Magazine</i> <b>79</b> (2015), 583                                                                | <i>Acta Crystallographica</i> <b>B75</b> (2019), 1137                     |
| Fleetite      | $\text{Cu}_2\text{RhIrSb}_2$                                                                                                                        | A  | 2018-073b | Russia              | <i>Canadian Mineralogist</i> <b>59</b> (2021), 423                                                                 |                                                                           |
| Fleischerite  | $\text{Pb}_3\text{Ge}(\text{SO}_4)_2(\text{OH})_6(\text{H}_2\text{O})_3$                                                                            | A  | 1962 s.p. | Namibia             | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1960), 132                                                      | <i>Neues Jahrbuch für Mineralogie Abhandlungen</i> <b>123</b> (1975), 160 |
| Fleisstalite  | $\text{Fe}^{2+}(\text{SO}_3)(\text{H}_2\text{O})_3$                                                                                                 | A  | 2016-038  | Austria             | CNMNC Newsletter 33 - <i>Mineralogical Magazine</i> <b>80</b> (2016), 1135                                         |                                                                           |
| Fletcherite   | $\text{CuNi}_2\text{S}_4$                                                                                                                           | A  | 1976-044  | USA                 | <i>Economic Geology</i> <b>72</b> (1977), 480                                                                      | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1985), 35              |
| Flinkite      | $\text{Mn}^{2+}_2\text{Mn}^{3+}(\text{AsO}_4)(\text{OH})_4$                                                                                         | G  | 1889      | Sweden              | <i>Geologiska Föreningens i Stockholm Förhandlingar</i> <b>11</b> (1889), 212                                      | <i>Acta Crystallographica</i> <b>E57</b> (2001), i115                     |

|                                     |                                                                        |    |           |                                         |                                                                                                                                        |                                                               |
|-------------------------------------|------------------------------------------------------------------------|----|-----------|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|
| Flinteite                           | $K_2ZnCl_4$                                                            | A  | 2014-009  | Russia                                  | <i>European Journal of Mineralogy</i> <b>27</b> (2015), 581                                                                            |                                                               |
| Florencite-(Ce)                     | $CeAl_3(PO_4)_2(OH)_6$                                                 | Rn | 1987 s.p. | Brazil                                  | <i>Nature</i> <b>61</b> (1899), 119                                                                                                    | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1990), 227 |
| Florencite-(La)                     | $LaAl_3(PO_4)_2(OH)_6$                                                 | Rn | 1987 s.p. | Democratic Republic of the Congo        | <i>Canadian Mineralogist</i> <b>18</b> (1980), 301                                                                                     |                                                               |
| Florencite-(Nd)                     | $NdAl_3(PO_4)_2(OH)_6$                                                 | A  | 1971-xxx  | USA                                     | <i>Mineralogical Record</i> <b>2</b> (1971), 166                                                                                       |                                                               |
| Florencite-(Sm)                     | $SmAl_3(PO_4)_2(OH)_6$                                                 | A  | 2009-074  | Russia                                  | <i>Zapiski Rossiyskogo Mineralogicheskogo Obshchestva</i> <b>139(4)</b> (2010), 16                                                     |                                                               |
| Florenskyite                        | $FeTiP$                                                                | A  | 1999-013  | Yemen (meteorite)                       | <i>American Mineralogist</i> <b>85</b> (2000), 1082                                                                                    |                                                               |
| Florensovite                        | $Cu(Cr_{1.5}Sb_{0.5})S_4$                                              | A  | 1987-012  | Russia                                  | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>118(1)</b> (1989), 57                                                    | <i>American Mineralogist</i> <b>99</b> (2014), 908            |
| Flörkeite                           | $(K_3Ca_2Na)[Al_8Si_8O_{32}] \cdot 12H_2O$                             | A  | 2008-036  | Germany                                 | <i>European Journal of Mineralogy</i> <b>21</b> (2009), 901                                                                            | <i>Lithosphere</i> (2022), 1343791                            |
| Fluckite                            | $CaMn^{2+}(AsO_3OH)_2(H_2O)_2$                                         | A  | 1978-054  | France                                  | <i>Bulletin de Minéralogie</i> <b>103</b> (1980), 122                                                                                  | <i>Bulletin de Minéralogie</i> <b>103</b> (1980), 129         |
| Fluellite                           | $Al_2(PO_4)F_2(OH)(H_2O)_3 \cdot 4H_2O$                                | G  | 1824      | United Kingdom                          | <i>Annals of Philosophy</i> <b>8</b> (1824), 241                                                                                       | <i>American Mineralogist</i> <b>51</b> (1966), 1579           |
| Fluoborite                          | $Mg_3(BO_3)F_3$                                                        | G  | 1926      | Sweden                                  | <i>Geologiska Föreningens i Stockholm Förhandlingar</i> <b>48</b> (1926), 84                                                           | <i>American Mineralogist</i> <b>85</b> (2000), 103            |
| Fluocerite-(Ce)                     | $CeF_3$                                                                | A  | 1987 s.p. | Sweden                                  | Treatise on Mineralogy. Hezekiah Howe, New Haven (1832), 302                                                                           | <i>Acta Crystallographica</i> <b>B32</b> (1976), 94           |
| Fluocerite-(La)                     | $LaF_3$                                                                | Rn | 1987 s.p. | Kazakhstan                              | <i>Trudy Mineralogicheskogo Muzeya Akademiyi Nauk SSSR</i> <b>19</b> (1969), 236                                                       | <i>Acta Crystallographica</i> <b>B41</b> (1985), 91           |
| Fluoralforsite                      | $Ba_5(PO_4)_3F$                                                        | A  | 2022-093  | Israel                                  | <i>Mineralogical Magazine</i> <b>87</b> (2023), 866                                                                                    |                                                               |
| Fluorannite                         | $KFe^{2+}_3(Si_3Al)O_{10}F_2$                                          | A  | 1999-048  | China                                   | <i>Acta Petrologica et Mineralogica</i> <b>19</b> (2000), 355                                                                          | <i>Mineralogical Magazine</i> <b>71</b> (2007), 683           |
| Fluorapatite                        | $Ca_5(PO_4)_3F$                                                        | Rn | 2010 s.p. | Austria / Germany / Spain / Switzerland | Grundriss des Mineralsystems. Himbürg, Berlin (1786), 281                                                                              | <i>American Mineralogist</i> <b>103</b> (2018), 1981          |
| Fluorapophyllite-(Cs)               | $CsCa_4(Si_8O_{20})F(H_2O)_8$                                          | A  | 2018-108a | Tajikistan                              | <i>Canadian Mineralogist</i> <b>57</b> (2019), 965                                                                                     |                                                               |
| Fluorapophyllite-(K)                | $KCa_4(Si_8O_{20})F(H_2O)_8$                                           | Rn | 1978 s.p. | India                                   | Tableau Méthodique des Espèces Minérales, Première Partie. Levrault, Paris (1806), 266                                                 | <i>Physics and Chemistry of Minerals</i> <b>50</b> (2023), 6  |
| Fluorapophyllite-(Na)               | $NaCa_4(Si_8O_{20})F(H_2O)_8$                                          | Rn | 1976-032  | Japan                                   | <i>American Mineralogist</i> <b>66</b> (1981), 410                                                                                     | <i>American Mineralogist</i> <b>66</b> (1981), 416            |
| Fluorapophyllite-(NH <sub>4</sub> ) | $(NH_4)Ca_4(Si_8O_{20})F(H_2O)_8$                                      | A  | 2019-083  | Slovakia                                | <i>Mineralogical Magazine</i> <b>84</b> (2020), 533                                                                                    |                                                               |
| Fluorarrojadite-(BaFe)              | $(Ba\Box)(Fe^{2+}\Box)CaNa_2\Box Fe^{2+}_{13}Al(PO_4)_{11}(PO_3OH)F_2$ | A  | 2005-058a | Morocco                                 | <i>American Mineralogist</i> <b>91</b> (2006), 1260                                                                                    | <i>American Mineralogist</i> <b>91</b> (2006), 1249           |
| Fluorarrojadite-(BaNa)              | $(Ba\Box)Na_2(CaNa_2\Box)Fe^{2+}_{13}Al(PO_4)_{11}(PO_3OH)F_2$         | A  | 2016-075  | Slovakia                                | <i>Mineralogical Magazine</i> <b>82</b> (2018), 863                                                                                    |                                                               |
| Fluorbarytolamprophyllite           | $(BaK)Ti_2Na_3Ti(Si_2O_7)_2O_2F_2$                                     | A  | 2016-089  | Russia                                  | <i>Mineralogy and Petrology</i> <b>113</b> (2019), 533                                                                                 |                                                               |
| Fluorbritholite-(Ce)                | $(Ce,Ca)_5(SiO_4)_3F$                                                  | A  | 1991-027  | Canada                                  | <i>Journal of Wuhan University of Technology</i> <b>9(3)</b> (1994), 9                                                                 | <i>Doklady Earth Sciences</i> <b>464</b> (2015), 936          |
| Fluorbritholite-(La)                | $Ca_2La_3(SiO_4)_3F$                                                   | A  | 2025-027  | China                                   | CNMNC Newsletter 86 - <i>Mineralogical Magazine</i> <b>89</b> (2025), 544; <i>European Journal of Mineralogy</i> <b>37</b> (2025), 549 |                                                               |
| Fluorbritholite-(Nd)                | $Ca_2Nd_3(SiO_4)_3F$                                                   | A  | 2023-001  | Sweden                                  | <i>Mineralogical Magazine</i> <b>87</b> (2023), 731                                                                                    |                                                               |

|                       |                                                                 |    |           |             |                                                                                       |                                                                |
|-----------------------|-----------------------------------------------------------------|----|-----------|-------------|---------------------------------------------------------------------------------------|----------------------------------------------------------------|
| Fluorbritholite-(Y)   | $(Y,Ca)_5(SiO_4)_3F$                                            | A  | 2009-005  | Norway      | <i>Neues Jahrbuch für Mineralogie Abhandlungen</i> <b>188</b> (2011), 191             |                                                                |
| Fluor-buergerite      | $NaFe^{3+}_3Al_6(Si_6O_{18})(BO_3)_3O_3F$                       | Rd | 1965-005  | Mexico      | <i>American Mineralogist</i> <b>51</b> (1966), 198                                    | <i>Acta Crystallographica</i> <b>B25</b> (1969), 1524          |
| Fluorcalciobriholite  | $(Ca,REE)_5(SiO_4,PO_4)_3F$                                     | A  | 2006-010  | Russia      | <i>European Journal of Mineralogy</i> <b>19</b> (2007), 95                            |                                                                |
| Fluorcalciomicrolite  | $(Ca,Na,\square)_2Ta_2O_6F$                                     | A  | 2012-036  | Brazil      | <i>Mineralogical Magazine</i> <b>77</b> (2013), 2989                                  |                                                                |
| Fluorcalciopyrochlore | $(Ca,Na)_2(Nb,Ti)_2O_6F$                                        | A  | 2013-055  | China       | <i>Canadian Mineralogist</i> <b>54</b> (2016), 1285                                   | <i>Mineralogical Magazine</i> <b>85</b> (2021), 532            |
| Fluorcalcioroméite    | $(Ca,Na)_2Sb^{5+}_2O_6F$                                        | A  | 2012-093  | Switzerland | <i>Mineralogical Magazine</i> <b>77</b> (2013), 467                                   | <i>Minerals</i> <b>11</b> (2021), 1409                         |
| Fluorcanasite         | $K_3Na_3Ca_5Si_{12}O_{30}F_4(H_2O)$                             | A  | 2007-031  | Russia      | <i>Zapiski Rossiyskogo Mineralogicheskogo Obshchestva</i> <b>138(2)</b> (2009), 52    |                                                                |
| Fluorcaphite          | $SrCaCa_3(PO_4)_3F$                                             | A  | 1996-022  | Russia      | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>126(3)</b> (1997), 87 | <i>Canadian Mineralogist</i> <b>43</b> (2005), 735             |
| Fluorcarletonite      | $KNa_4Ca_4Si_8O_{18}(CO_3)_4F(H_2O)$                            | A  | 2019-038  | Russia      | <i>European Journal of Mineralogy</i> <b>32</b> (2020), 137                           | <i>Mineralogical Magazine</i> <b>88</b> (2024), 493            |
| Fluorcarmoite-(BaNa)  | $(Ba\square)Na_2(CaNa_2\square)Mg_{13}Al(PO_4)_{11}(PO_3OH)F_2$ | A  | 2015-062  | Italy       | <i>European Journal of Mineralogy</i> <b>31</b> (2019), 823                           |                                                                |
| Fluorchegemite        | $Ca_7(SiO_4)_3F_2$                                              | A  | 2011-112  | Russia      | <i>Canadian Mineralogist</i> <b>53</b> (2015), 325                                    |                                                                |
| Fluor-dravite         | $NaMg_3Al_6(Si_6O_{18})(BO_3)_3(OH)_3F$                         | A  | 2009-089  | USA         | <i>Canadian Mineralogist</i> <b>49</b> (2011), 57                                     |                                                                |
| Fluor-elbaite         | $Na(Li_{1.5}Al_{1.5})Al_6(Si_6O_{18})(BO_3)_3(OH)_3F$           | A  | 2011-071  | Brazil      | <i>American Mineralogist</i> <b>98</b> (2013), 297                                    | <i>American Mineralogist</i> <b>105</b> (2020), 1622           |
| Fluorellestadite      | $Ca_5(SiO_4)_{1.5}(SO_4)_{1.5}F$                                | Rd | 1987-002  | Russia      | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>116</b> (1987), 743     | <i>Mineralogy and Petrology</i> <b>115</b> (2021), 271         |
| Fluorite              | $CaF_2$                                                         | G  | ?         | unknown     | original paper?                                                                       | <i>Physics and Chemistry of Minerals</i> <b>29</b> (2002), 465 |
| Fluorkyuygenite       | $Ca_{12}Al_{14}O_{32}[(H_2O)_4F_2]$                             | A  | 2013-043  | Israel      | <i>European Journal of Mineralogy</i> <b>27</b> (2015), 123                           |                                                                |
| Fluorlamprophyllite   | $(SrNa)Ti_2Na_3Ti(Si_2O_7)_2O_2F_2$                             | Rd | 2013-102  | Brazil      | <i>Mineralogical Magazine</i> <b>82</b> (2018), 121                                   |                                                                |
| Fluor-liddicoatite    | $Ca(Li_2Al)Al_6(Si_6O_{18})(BO_3)_3(OH)_3F$                     | Rd | 1976-041  | Madagascar  | <i>American Mineralogist</i> <b>62</b> (1977), 1121                                   | <i>Crystals</i> <b>13</b> (2023), 1290                         |
| Fluorluanshiweiite    | $KLiAl_{1.5}\square_{0.5}(Si_{3.5}Al_{0.5})O_{10}F_2$           | A  | 2019-053  | China       | <i>Minerals</i> <b>10</b> (2020), 93                                                  |                                                                |
| Fluormacraeite        | $[(H_2O)K]Mn_2(Fe_2Ti)(PO_4)_4(OF)(H_2O)_{10}\cdot 4H_2O$       | A  | 2024-054  | Germany     | <i>European Journal of Mineralogy</i> <b>37</b> (2025), 169                           |                                                                |
| Fluormayenite         | $Ca_{12}Al_{14}O_{32}[\square_4F_2]$                            | A  | 2013-019  | Palestine   | <i>European Journal of Mineralogy</i> <b>27</b> (2015), 123                           |                                                                |
| Fluornatrocoulsellite | $(Na_{1.5}Ca_{0.5})(Mg_{1.5}Al_{0.5})F_6F$                      | Rn | 2009-070  | Australia   | <i>Australian Journal of Mineralogy</i> <b>15</b> (2009), 21                          | <i>Canadian Mineralogist</i> <b>55</b> (2017), 115             |
| Fluornatromicrolite   | $(Na_{1.5}Bi_{0.5})Ta_2O_6F$                                    | A  | 1998-018  | Brazil      | <i>Canadian Mineralogist</i> <b>49</b> (2011), 1105                                   |                                                                |
| Fluornatropyrochlore  | $(Na,Pb,Ca,REE,U)_2Nb_2O_6F$                                    | A  | 2013-056  | China       | <i>Canadian Mineralogist</i> <b>53</b> (2015), 455                                    |                                                                |
| Fluoro-cannilloite    | $CaCa_2(Mg_4Al)(Si_5Al_3)O_{22}F_2$                             | Rd | 2012 s.p. | Finland     | <i>American Mineralogist</i> <b>81</b> (1996), 995                                    |                                                                |
| Fluorocronite         | $PbF_2$                                                         | A  | 2010-023  | Russia      | <i>European Journal of Mineralogy</i> <b>23</b> (2011), 695                           |                                                                |
| Fluoro-edenite        | $NaCa_2Mg_5(Si_7Al)O_{22}F_2$                                   | Rd | 2012 s.p. | Italy       | <i>American Mineralogist</i> <b>86</b> (2001), 1489                                   | <i>Mineralogical Magazine</i> <b>78</b> (2014), 293            |
| Fluorokinoshitalite   | $BaMg_3Al_2Si_2O_{10}F_2$                                       | A  | 2010-001  | China       | <i>Clay Science</i> <b>15</b> (2011), 13                                              |                                                                |

|                            |                                                                                                                                               |    |           |                 |                                                                                       |                                                                             |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|----|-----------|-----------------|---------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| Fluoro-leakeite            | $\text{NaNa}_2(\text{Mg}_2\text{Al}_2\text{Li})\text{Si}_8\text{O}_{22}\text{F}_2$                                                            | Rd | 2012 s.p. | Sweden          | <i>Mineralogical Magazine</i> <b>73</b> (2009), 817                                   |                                                                             |
| Fluoro-nybøite             | $\text{NaNa}_2(\text{Mg}_3\text{Al}_2)(\text{Si}_7\text{Al})\text{O}_{22}\text{F}_2$                                                          | Rd | 2012 s.p. | China           | <i>Mineralogical Magazine</i> <b>67</b> (2003), 769                                   |                                                                             |
| Fluoro-pargasite           | $\text{NaCa}_2(\text{Mg}_4\text{Al})(\text{Si}_6\text{Al}_2)\text{O}_{22}\text{F}_2$                                                          | Rd | 2012 s.p. | USA             | <i>Canadian Mineralogist</i> <b>43</b> (2005), 1423                                   | <i>Mineralogical Magazine</i> <b>78</b> (2014), 293                         |
| Fluoro-pedrizite           | $\text{NaLi}_2(\text{Mg}_2\text{Al}_2\text{Li})\text{Si}_8\text{O}_{22}\text{F}_2$                                                            | Rd | 2012 s.p. | Russia          | <i>American Mineralogist</i> <b>90</b> (2005), 732                                    |                                                                             |
| Fluorophlogopite           | $\text{KMg}_3(\text{Si}_3\text{Al})\text{O}_{10}\text{F}_2$                                                                                   | A  | 2006-011  | Italy           | <i>American Mineralogist</i> <b>92</b> (2007), 1601                                   | <i>Physics and Chemistry of Minerals</i> <b>47</b> (2020), 54               |
| Fluoro-richterite          | $\text{Na}(\text{NaCa})\text{Mg}_5\text{Si}_8\text{O}_{22}\text{F}_2$                                                                         | Rd | 2012 s.p. | Russia          | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>122(3)</b> (1993), 98 | <i>Canadian Mineralogist</i> <b>53</b> (2015), 285                          |
| Fluoro-riebeckite          | $\square\text{Na}_2(\text{Fe}^{2+}_3\text{Fe}^{3+}_2)\text{Si}_8\text{O}_{22}\text{F}_2$                                                      | Rd | 2012 s.p. | USA             | <i>Canadian Mineralogist</i> <b>16</b> (1978), 187                                    |                                                                             |
| Fluoro-taramite            | $\text{Na}(\text{NaCa})(\text{Mg}_3\text{Al}_2)(\text{Si}_6\text{Al}_2)\text{O}_{22}\text{F}_2$                                               | Rd | 2012 s.p. | China           | <i>American Mineralogist</i> <b>92</b> (2007), 1428                                   |                                                                             |
| Fluorotetraferriphlogopite | $\text{KMg}_3\text{Fe}^{3+}_3\text{Si}_3\text{O}_{10}\text{F}_2$                                                                              | A  | 2010-002  | China           | <i>Clay Science</i> <b>15</b> (2011), 13                                              |                                                                             |
| Fluoro-tremolite           | $\square\text{Ca}_2\text{Mg}_5\text{Si}_8\text{O}_{22}\text{F}_2$                                                                             | A  | 2016-018  | USA             | <i>Mineralogical Magazine</i> <b>82</b> (2018), 145                                   |                                                                             |
| Fluorowardite              | $\text{NaAl}_3(\text{PO}_4)_2(\text{OH})_2\text{F}_2(\text{H}_2\text{O})_2$                                                                   | A  | 2012-016  | USA             | <i>American Mineralogist</i> <b>99</b> (2014), 804                                    |                                                                             |
| Fluorophosphohedyphane     | $\text{Ca}_2\text{Pb}_3(\text{PO}_4)_3\text{F}$                                                                                               | Rn | 2008-068  | USA             | <i>American Mineralogist</i> <b>96</b> (2011), 423                                    |                                                                             |
| Fluorpyromorphite          | $\text{Pb}_5(\text{PO}_4)_3\text{F}$                                                                                                          | A  | 2021-120  | Russia          | <i>Journal of Geosciences</i> <b>68</b> (2023), 81                                    |                                                                             |
| Fluor-rewitzerite          | $[(\text{H}_2\text{O})\text{K}]\text{Mn}_2(\text{Al}_2\text{Ti})(\text{PO}_4)_4(\text{OF})(\text{H}_2\text{O})_{10}\cdot 4\text{H}_2\text{O}$ | A  | 2023-115  | Germany         | <i>European Journal of Mineralogy</i> <b>36</b> (2024), 541                           |                                                                             |
| Fluor-rossmanite           | $\square(\text{Al}_2\text{Li})\text{Al}_6(\text{Si}_6\text{O}_{18})(\text{BO}_3)_3(\text{OH})_3\text{F}$                                      | A  | 2023-111  | Russia          | <i>Mineralogical Magazine</i> <b>88</b> (2024), 668                                   |                                                                             |
| Fluor-schorl               | $\text{NaFe}^{2+}_3\text{Al}_6(\text{Si}_6\text{O}_{18})(\text{BO}_3)_3(\text{OH})_3\text{F}$                                                 | A  | 2010-067  | Germany / Italy | <i>European Journal of Mineralogy</i> <b>28</b> (2016), 163                           |                                                                             |
| Fluorsigaiite              | $\text{Ca}_2\text{Sr}_3(\text{PO}_4)_3\text{F}$                                                                                               | A  | 2021-087a | China           | <i>Mineralogical Magazine</i> <b>86</b> (2022), 940                                   |                                                                             |
| Fluorstrophite             | $\text{SrCaSr}_3(\text{PO}_4)_3\text{F}$                                                                                                      | Rn | 2010 s.p. | Russia          | <i>Doklady Akademii Nauk SSSR</i> <b>142</b> (1962), 439                              | <i>Soviet Physics - Crystallography</i> <b>32</b> (1987), 524               |
| Fluor-tsilaisite           | $\text{NaMn}^{2+}_3\text{Al}_6(\text{Si}_6\text{O}_{18})(\text{BO}_3)_3(\text{OH})_3\text{F}$                                                 | A  | 2012-044  | Italy           | <i>Mineralogical Magazine</i> <b>79</b> (2015), 89                                    |                                                                             |
| Fluor-uvite                | $\text{CaMg}_3(\text{Al}_5\text{Mg})(\text{Si}_6\text{O}_{18})(\text{BO}_3)_3(\text{OH})_3\text{F}$                                           | Rd | 2011 s.p. | Sri Lanka       | <i>Chemie der Erde</i> <b>4</b> (1930), 208                                           | <i>Mineralogical Record</i> <b>8</b> (1977), 100                            |
| Fluorvesuvianite           | $\text{Ca}_{19}\text{Al}(\text{Al}_{10}\text{Mg}_2)(\text{SiO}_4)_{10}(\text{Si}_2\text{O}_7)_4\text{OF}_9$                                   | A  | 2000-037  | Russia          | <i>Canadian Mineralogist</i> <b>41</b> (2003), 1371                                   |                                                                             |
| Fluorwavellite             | $\text{Al}_3(\text{PO}_4)_2(\text{OH})_2\text{F}(\text{H}_2\text{O})_5$                                                                       | A  | 2015-077  | USA             | <i>American Mineralogist</i> <b>102</b> (2017), 909                                   |                                                                             |
| Flurlite                   | $\text{ZnZn}_3\text{Fe}^{3+}(\text{PO}_4)_3(\text{OH})_2(\text{H}_2\text{O})_7\cdot 2\text{H}_2\text{O}$                                      | Rd | 2014-064  | Germany         | <i>Mineralogical Magazine</i> <b>79</b> (2015), 1175                                  |                                                                             |
| Foggite                    | $\text{CaAl}(\text{PO}_4)(\text{OH})_2\cdot \text{H}_2\text{O}$                                                                               | A  | 1973-067  | USA             | <i>American Mineralogist</i> <b>60</b> (1975), 957                                    | <i>American Mineralogist</i> <b>60</b> (1975), 965                          |
| Fogoite-(Y)                | $\text{Ca}_2\text{Y}_2\text{Na}_3\text{Ti}(\text{Si}_2\text{O}_7)_2(\text{OF})\text{F}_2$                                                     | Rd | 2014-098  | Portugal        | <i>Mineralogical Magazine</i> <b>81</b> (2017), 369                                   |                                                                             |
| Foitite                    | $\square(\text{Fe}^{2+}_2\text{Al})\text{Al}_6(\text{Si}_6\text{O}_{18})(\text{BO}_3)_3(\text{OH})_3(\text{OH})$                              | A  | 1992-034  | USA             | <i>American Mineralogist</i> <b>78</b> (1993), 1299                                   | <i>European Journal of Mineralogy</i> <b>35</b> (2023), 105                 |
| Folvikite                  | $\text{Sb}^{5+}\text{Mn}^{3+}(\text{Mg}, \text{Mn}^{2+})_{10}\text{O}_8(\text{BO}_3)_4$                                                       | A  | 2016-026  | Sweden          | <i>Mineralogical Magazine</i> <b>82</b> (2018), 821                                   |                                                                             |
| Fontanite                  | $\text{Ca}(\text{UO}_2)_3(\text{CO}_3)_2\text{O}_2(\text{H}_2\text{O})_6$                                                                     | A  | 1991-034  | France          | <i>European Journal of Mineralogy</i> <b>4</b> (1992), 1271                           | <i>Inorganic Chemistry Frontiers</i> <b>7</b> (2020), 4197                  |
| Fontarnauite               | $\text{Na}_2\text{Sr}(\text{SO}_4)[\text{B}_5\text{O}_8(\text{OH})](\text{H}_2\text{O})_2$                                                    | A  | 2009-096a | Turkey          | <i>Canadian Mineralogist</i> <b>53</b> (2015), 803                                    |                                                                             |
| Foordite                   | $\text{Sn}^{2+}\text{Nb}_2\text{O}_6$                                                                                                         | A  | 1984-070  | Rwanda          | <i>Canadian Mineralogist</i> <b>26</b> (1988), 889                                    | <i>Chemistry of Materials</i> <b>30</b> (2018), 8221                        |
| Footemineite               | $\text{Ca}_2\text{Mn}^{2+}_5\text{Be}_4(\text{PO}_4)_6(\text{OH})_4(\text{H}_2\text{O})_6$                                                    | A  | 2006-029  | USA             | <i>American Mineralogist</i> <b>93</b> (2008), 1                                      | <i>Doklady Akademii Nauk, Earth Science Section</i> <b>416</b> (2007), 1053 |

|                    |                                                                                                                                                |    |           |                                  |                                                                                                  |                                                               |
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| Forêtite           | $\text{Cu}_2\text{Al}_2(\text{AsO}_4)(\text{OH},\text{O},\text{H}_2\text{O})_6$                                                                | A  | 2011-100  | France                           | <i>Mineralogical Magazine</i> <b>76</b> (2012), 769                                              |                                                               |
| Formanite-(Y)      | $\text{YTaO}_4$                                                                                                                                | Rn | 1987 s.p. | Australia                        | Dana's System of Mineralogy, 7th ed., Vol. 1. Wiley, New York (1944), 757                        | <i>Acta Crystallographica</i> <b>23</b> (1967), 939           |
| Formicaite         | $\text{Ca}(\text{CHOO})_2$                                                                                                                     | A  | 1998-030  | Russia                           | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>128(2)</b> (1999), 43            |                                                               |
| Fornacite          | $\text{CuPb}_2(\text{CrO}_4)(\text{AsO}_4)(\text{OH})$                                                                                         | G  | 1915      | Republic of the Congo            | <i>Bulletin de la Société Française de Minéralogie</i> <b>38</b> (1915), 198                     | <i>Doklady Earth Sciences</i> <b>456</b> (2014), 520          |
| Forsterite         | $\text{Mg}_2(\text{SiO}_4)$                                                                                                                    | G  | 1824      | Italy                            | <i>Annals of Philosophy</i> <b>7</b> (1824), 61                                                  | <i>Minerals</i> <b>9</b> (2019), 790                          |
| Foshagite          | $\text{Ca}_4(\text{SiO}_3)_3(\text{OH})_2$                                                                                                     | G  | 1925      | USA                              | <i>American Mineralogist</i> <b>10</b> (1925), 97                                                | <i>Acta Crystallographica</i> <b>13</b> (1960), 785           |
| Fougèrite          | $\text{Fe}^{2+}_4\text{Fe}^{3+}_2(\text{OH})_{12}(\text{CO}_3)\cdot 3\text{H}_2\text{O}$                                                       | Rd | 2003-057  | France                           | <i>Clays and Clay Minerals</i> <b>55</b> (2007), 323                                             | <i>Clays and Clay Minerals</i> <b>59</b> (2011), 3            |
| Fourmarierite      | $\text{Pb}_{1-x}\text{O}_{3-2x}(\text{UO}_2)_4(\text{OH})_{4+2x}\cdot 4\text{H}_2\text{O}$                                                     | G  | 1924      | Democratic Republic of the Congo | <i>Annales de la Société Géologique de Belgique</i> <b>47</b> (1924), C41                        | <i>Canadian Mineralogist</i> <b>38</b> (2000), 737            |
| Fowlerite          | $(\text{Mn},\text{Zn})\text{SiO}_3$                                                                                                            | Q  | 1832      | USA                              | <i>American Journal of Science</i> <b>21</b> (1832), 321                                         | <i>American Mineralogist</i> <b>90</b> (2005), 969            |
| Fraipontite        | $(\text{Zn},\text{Al})_3(\text{Si},\text{Al})_2\text{O}_5(\text{OH})_4$                                                                        | G  | 1927      | Belgium                          | <i>Annales de la Société Géologique de Belgique</i> <b>50</b> (1927), 106                        | <i>Nippon Kagaku Kaishi</i> (1991), 962                       |
| Francevillite      | $\text{Ba}(\text{UO}_2)_2(\text{VO}_4)_2(\text{H}_2\text{O})_5$                                                                                | Rn | 2007 s.p. | Gabon                            | <i>Comptes Rendus Hebdomadaires des Séances de l'Académie des Sciences</i> <b>245</b> (1957), 89 | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1986), 552 |
| Franciscanite      | $\text{Mn}^{2+}_6(\text{V}^{5+}\square)(\text{SiO}_4)_2\text{O}_3(\text{OH})_3$                                                                | A  | 1985-038  | USA                              | <i>American Mineralogist</i> <b>71</b> (1986), 1522                                              | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1986), 493 |
| Francisite         | $\text{Cu}_3\text{Bi}(\text{Se}^{4+}\text{O}_3)_2\text{O}_2\text{Cl}$                                                                          | A  | 1989-028  | Australia                        | <i>American Mineralogist</i> <b>75</b> (1990), 1421                                              | <i>Journal of Materials Chemistry</i> <b>11</b> (2001), 1152  |
| Franckeite         | $\text{Pb}_{21.7}\text{Sn}_{9.3}\text{Fe}_{4.0}\text{Sb}_{8.1}\text{S}_{56.9}$                                                                 | G  | 1893      | Bolivia                          | <i>Neues Jahrbuch für Mineralogie</i> <b>2</b> (1893), 114                                       | <i>American Mineralogist</i> <b>96</b> (2011), 1686           |
| Francoanellite     | $\text{K}_3\text{Al}_5(\text{PO}_3\text{OH})_6(\text{PO}_4)_2(\text{H}_2\text{O})_{12}$                                                        | A  | 1974-051  | Italy                            | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1976), 49                                     | <i>Zeitschrift für Naturforschung</i> <b>53b</b> (1998), 711  |
| Françoisite-(Ce)   | $\text{Ce}(\text{UO}_2)_3\text{O}(\text{OH})(\text{PO}_4)_2\cdot 6\text{H}_2\text{O}$                                                          | A  | 2004-029  | Switzerland / Australia          | <i>American Mineralogist</i> <b>95</b> (2010), 1527                                              |                                                               |
| Françoisite-(Nd)   | $\text{Nd}(\text{UO}_2)_3\text{O}(\text{OH})(\text{PO}_4)_2\cdot 6\text{H}_2\text{O}$                                                          | A  | 1987-041  | Democratic Republic of the Congo | <i>Bulletin de Minéralogie</i> <b>111</b> (1988), 443                                            | <i>Mineralogical Magazine</i> <b>60</b> (1996), 665           |
| Franconite         | $\text{NaNb}_2\text{O}_5(\text{OH})(\text{H}_2\text{O})_3$                                                                                     | A  | 1981-006a | Canada                           | <i>Canadian Mineralogist</i> <b>22</b> (1984), 239                                               | <i>Mineralogical Magazine</i> <b>78</b> (2014), 591           |
| Frankamenite       | $\text{K}_3\text{Na}_3\text{Ca}_5\text{Si}_{12}\text{O}_{30}\text{F}_3(\text{OH})(\text{H}_2\text{O})$                                         | A  | 1994-050  | Russia                           | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>125(2)</b> (1996), 106           | <i>Minerals</i> <b>13</b> (2023), 1017                        |
| Frankdicksonite    | $\text{BaF}_2$                                                                                                                                 | A  | 1974-015  | USA                              | <i>American Mineralogist</i> <b>59</b> (1974), 885                                               |                                                               |
| Frankhawthorneite  | $\text{Cu}_2\text{Te}^{6+}\text{O}_4(\text{OH})_2$                                                                                             | A  | 1993-047  | USA                              | <i>Canadian Mineralogist</i> <b>33</b> (1995), 641                                               | <i>Canadian Mineralogist</i> <b>33</b> (1995), 649            |
| Franklinfurnaceite | $\text{Ca}_2\text{Mn}^{2+}_3\text{Mn}^{3+}\text{Fe}^{3+}\text{Zn}_2\text{Si}_2\text{O}_{10}(\text{OH})_8$                                      | A  | 1986-034  | USA                              | <i>American Mineralogist</i> <b>72</b> (1987), 812                                               | <i>American Mineralogist</i> <b>73</b> (1988), 876            |
| Franklinite        | $\text{ZnFe}^{3+}_2\text{O}_4$                                                                                                                 | G  | 1819      | USA                              | <i>Annales des Mines</i> <b>4</b> (1819), 483                                                    | <i>European Journal of Mineralogy</i> <b>11</b> (1999), 511   |
| Franklinphillite   | $(\text{K},\text{Na})_4(\text{Mn}^{2+},\text{Mg},\text{Zn})_{48}(\text{Si},\text{Al})_{72}(\text{O},\text{OH})_{216}\cdot 6\text{H}_2\text{O}$ | D  | 1990-050  | USA                              | <i>Mineralogical Record</i> <b>23</b> (1992), 465                                                |                                                               |
| Frankousaite       | $\text{PbCu}(\text{Se}^{6+}\text{O}_4)(\text{OH})_2$                                                                                           | A  | 2021-096  | Bolivia                          | <i>Mineralogical Magazine</i> <b>86</b> (2022), 792                                              |                                                               |
| Fransoletite       | $\text{Ca}_3\text{Be}_2(\text{PO}_4)_2(\text{PO}_3\text{OH})_2(\text{H}_2\text{O})_4$                                                          | A  | 1982-096  | USA                              | <i>Bulletin de Minéralogie</i> <b>106</b> (1983), 499                                            | <i>American Mineralogist</i> <b>77</b> (1992), 848            |
| Franzinite         | $(\text{Na},\text{K})_{30}\text{Ca}_{10}(\text{Si}_{30}\text{Al}_{30})\text{O}_{120}(\text{SO}_4)_{10}(\text{H}_2\text{O})_2$                  | A  | 1976-020  | Italy                            | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1977), 163                                    | <i>Canadian Mineralogist</i> <b>38</b> (2000), 657            |

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| Freboldite        | CoSe                                                                                                                                                            | G | 1957      | Germany                  | Mineralogische Tabellen, 3rd ed. (1957), 98                                                                                            |                                                                                                                                     |
| Fredrikssonite    | Mg <sub>2</sub> Mn <sup>3+</sup> O <sub>2</sub> (BO <sub>3</sub> )                                                                                              | A | 1983-040  | Sweden                   | <i>Geologiska Föreningens i Stockholm Förhandlingar</i> <b>105</b> (1983), 335                                                         | <i>Zapiski Rossiyskogo Mineralogicheskogo Obshchestva</i> <b>154(3)</b> (2025), 56                                                  |
| Freedite          | Cu <sup>1+</sup> Pb <sub>8</sub> (As <sup>3+</sup> O <sub>3</sub> ) <sub>2</sub> O <sub>3</sub> Cl <sub>5</sub>                                                 | A | 1984-012  | Sweden                   | <i>American Mineralogist</i> <b>70</b> (1985), 845                                                                                     | <i>Mineralogy and Petrology</i> <b>36</b> (1987), 85                                                                                |
| Freieslebenite    | AgPbSbS <sub>3</sub>                                                                                                                                            | G | 1845      | Germany                  | Handbuch der Bestimmenden Mineralogie. Braumüller and Seidel, Wien (1845), 563                                                         | <i>Zeitschrift für Kristallographie</i> <b>139</b> (1974), 85                                                                       |
| Freitalite        | C <sub>14</sub> H <sub>10</sub>                                                                                                                                 | A | 2019-116  | Germany                  | <i>European Journal of Mineralogy</i> <b>33</b> (2021), 1                                                                              |                                                                                                                                     |
| Fresnoite         | Ba <sub>2</sub> TiO(Si <sub>2</sub> O <sub>7</sub> )                                                                                                            | A | 1964-012  | USA                      | <i>American Mineralogist</i> <b>50</b> (1965), 314                                                                                     | <i>Acta Crystallographica</i> <b>B79</b> (2023), 184                                                                                |
| Freudenbergite    | Na(Ti <sup>4+</sup> <sub>3</sub> Fe <sup>3+</sup> )O <sub>8</sub>                                                                                               | A | 1967 s.p. | Germany                  | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1961), 12                                                                           | <i>Acta Crystallographica</i> <b>B34</b> (1978), 255                                                                                |
| Friedelite        | Mn <sup>2+</sup> <sub>8</sub> Si <sub>6</sub> O <sub>15</sub> (OH) <sub>10</sub>                                                                                | G | 1876      | France                   | <i>Comptes Rendus Hebdomadaires des Séances de l'Académie des Sciences</i> <b>82</b> (1876), 1167                                      | <i>Yamaguchi University, College of Arts Bulletin</i> <b>26</b> (1992), 51                                                          |
| Friedrichbeckeite | K(□Na)Mg <sub>2</sub> (Be <sub>2</sub> Mg)Si <sub>12</sub> O <sub>30</sub>                                                                                      | A | 2008-019  | Germany                  | <i>Mineralogy and Petrology</i> <b>96</b> (2009), 221                                                                                  |                                                                                                                                     |
| Friedrichite      | Cu <sub>5</sub> Pb <sub>5</sub> Bi <sub>7</sub> S <sub>18</sub>                                                                                                 | A | 1977-031  | Austria                  | <i>Canadian Mineralogist</i> <b>16</b> (1978), 127                                                                                     | <i>Canadian Mineralogist</i> <b>40</b> (2002), 849                                                                                  |
| Friisite          | Pb <sub>8</sub> Al <sub>3</sub> Si <sub>8</sub> O <sub>27</sub> Cl <sub>3</sub>                                                                                 | A | 2024-047  | Sweden                   | <i>European Journal of Mineralogy</i> <b>38</b> (2026), 169                                                                            |                                                                                                                                     |
| Fritzscheite      | Mn <sup>2+</sup> (UO <sub>2</sub> ) <sub>2</sub> (VO <sub>4</sub> ) <sub>2</sub> ·4H <sub>2</sub> O                                                             | G | 1865      | Czech Republic / Germany | <i>Berg- und Hüttenmännische Zeitung</i> <b>2</b> (1865), 301                                                                          | <i>Bulletin de la Société Française de Minéralogie et de Cristallographie</i> <b>93</b> (1970), 320                                 |
| Frohbergite       | FeTe <sub>2</sub>                                                                                                                                               | G | 1947      | Canada                   | <i>University of Toronto Studies, Geological Series</i> <b>51</b> (1947), 35                                                           | <i>Anzeiger der Österreichischen Akademie der Wissenschaften, Mathematisch-Naturwissenschaftliche Klasse</i> <b>123</b> (1986), 123 |
| Frolovite         | Ca[B(OH) <sub>4</sub> ] <sub>2</sub>                                                                                                                            | G | 1957      | Russia                   | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>86</b> (1957), 622                                                       | <i>Doklady Akademii Nauk SSSR</i> <b>202</b> (1972), 78                                                                             |
| Frondelite        | (Mn <sup>2+</sup> <sub>0.5</sub> Fe <sup>3+</sup> <sub>0.5</sub> ) <sub>2</sub> Fe <sup>3+</sup> <sub>3</sub> (PO <sub>4</sub> ) <sub>3</sub> (OH) <sub>5</sub> | G | 1949      | Brazil                   | <i>American Mineralogist</i> <b>34</b> (1949), 541                                                                                     | <i>European Journal of Mineralogy</i> <b>30</b> (2018), 773                                                                         |
| Froodite          | PdBi <sub>2</sub>                                                                                                                                               | G | 1958      | Canada                   | <i>Canadian Mineralogist</i> <b>6</b> (1958), 200                                                                                      |                                                                                                                                     |
| Fuchunite         | Ba(C <sub>2</sub> H <sub>3</sub> O <sub>3</sub> ) <sub>2</sub> (C <sub>2</sub> H <sub>4</sub> O <sub>3</sub> ) <sub>2</sub>                                     | A | 2025-011  | USA                      | CNMNC Newsletter 85 - <i>Mineralogical Magazine</i> <b>89</b> (2025), 454; <i>European Journal of Mineralogy</i> <b>37</b> (2025), 337 |                                                                                                                                     |
| Fuenzalidaite     | K <sub>3</sub> Na <sub>2</sub> Na <sub>3</sub> Mg <sub>5</sub> (IO <sub>3</sub> ) <sub>6</sub> (SO <sub>4</sub> ) <sub>6</sub> (H <sub>2</sub> O) <sub>6</sub>  | A | 1993-021  | Chile                    | <i>American Mineralogist</i> <b>79</b> (1994), 1003                                                                                    |                                                                                                                                     |
| Fuettererite      | Pb <sub>3</sub> Cu <sup>2+</sup> <sub>6</sub> Te <sup>6+</sup> O <sub>6</sub> (OH) <sub>7</sub> Cl <sub>5</sub>                                                 | A | 2011-111  | USA                      | <i>American Mineralogist</i> <b>98</b> (2013), 506                                                                                     |                                                                                                                                     |
| Fukalite          | Ca <sub>4</sub> Si <sub>2</sub> O <sub>6</sub> (CO <sub>3</sub> )(OH) <sub>2</sub>                                                                              | A | 1976-003  | Japan                    | <i>Mineralogical Journal</i> <b>8</b> (1977), 374                                                                                      | <i>American Mineralogist</i> <b>94</b> (2009), 323                                                                                  |
| Fukuchilite       | Cu <sub>3</sub> FeS <sub>8</sub>                                                                                                                                | A | 1967-009  | Japan                    | <i>Mineralogical Journal</i> <b>5</b> (1969), 399                                                                                      | <i>American Mineralogist</i> <b>74</b> (1989), 1168                                                                                 |
| Fulbrightite      | Ca(VO) <sub>2</sub> (AsO <sub>4</sub> ) <sub>2</sub> (H <sub>2</sub> O) <sub>3</sub> ·H <sub>2</sub> O                                                          | A | 2019-032  | USA                      | <i>Canadian Mineralogist</i> <b>58</b> (2020), 663                                                                                     |                                                                                                                                     |
| Fülöppite         | Pb <sub>3</sub> Sb <sub>8</sub> S <sub>15</sub>                                                                                                                 | G | 1929      | Romania                  | <i>Mineralogical Magazine</i> <b>22</b> (1929), 179                                                                                    | <i>European Journal of Mineralogy</i> <b>32</b> (2020), 623                                                                         |
| Furongite         | Al <sub>4</sub> (UO <sub>2</sub> ) <sub>4</sub> (PO <sub>4</sub> ) <sub>6</sub> (OH) <sub>2</sub> (H <sub>2</sub> O) <sub>10</sub> ·9.5H <sub>2</sub> O         | A | 1982 s.p. | China                    | <i>Acta Geologica Sinica</i> <b>50</b> (1976), 203                                                                                     | <i>European Journal of Mineralogy</i> <b>29</b> (2017), 517                                                                         |
| Furutobeite       | (Cu,Ag) <sub>6</sub> PbS <sub>4</sub>                                                                                                                           | A | 1978-040  | Japan                    | <i>Bulletin de Minéralogie</i> <b>104</b> (1981), 737                                                                                  |                                                                                                                                     |
| Fuyuanite         | Mg <sub>7</sub> Nb <sub>6</sub> O <sub>18</sub> (OH) <sub>8</sub>                                                                                               | A | 2024-059  | China                    | <i>American Mineralogist</i> <b>110</b> (2025), 1649                                                                                   |                                                                                                                                     |

|                               |                                                                                                                                                                        |    |           |                                            |                                                                                              |                                                                           |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----------|--------------------------------------------|----------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|
| Gabrielite                    | Tl <sub>2</sub> AgCu <sub>2</sub> As <sub>3</sub> S <sub>7</sub>                                                                                                       | A  | 2002-053  | Switzerland                                | <i>Canadian Mineralogist</i> <b>44</b> (2006), 135                                           | <i>Canadian Mineralogist</i> <b>44</b> (2006), 141                        |
| Gabrielsonite                 | PbFe <sup>3+</sup> (AsO <sub>3</sub> )O                                                                                                                                | Rd | 2017 s.p. | Sweden                                     | <i>Arkiv för Mineralogi och Geologi</i> <b>4</b> (1967), 401                                 | <i>European Journal of Mineralogy</i> <b>30</b> (2018), 1173              |
| Gachingite                    | Au(Te <sub>1-x</sub> Se <sub>x</sub> ) (0.2 ≈ x ≤ 0.5)                                                                                                                 | A  | 2021-008  | Russia                                     | <i>Mineralogical Magazine</i> <b>86</b> (2022), 205                                          |                                                                           |
| Gadolinite-(Ce)               | Ce <sub>2</sub> Fe <sup>2+</sup> Be <sub>2</sub> O <sub>2</sub> (SiO <sub>4</sub> ) <sub>2</sub>                                                                       | A  | 1987 s.p. | Norway                                     | <i>American Mineralogist</i> <b>63</b> (1978), 188                                           |                                                                           |
| Gadolinite-(Nd)               | Nd <sub>2</sub> Fe <sup>2+</sup> Be <sub>2</sub> O <sub>2</sub> (SiO <sub>4</sub> ) <sub>2</sub>                                                                       | A  | 2016-013  | Sweden                                     | <i>Mineralogical Magazine</i> <b>82</b> (2018), S133                                         |                                                                           |
| Gadolinite-(Y)                | Y <sub>2</sub> Fe <sup>2+</sup> Be <sub>2</sub> O <sub>2</sub> (SiO <sub>4</sub> ) <sub>2</sub>                                                                        | Rn | 1987 s.p. | Sweden                                     | Beiträge zur Chemischen Kenntniss der Mineralkörper, Vol. 3. Rottmann, Berlin (1802), 52     | <i>American Mineralogist</i> <b>105</b> (2020), 1647                      |
| Gagarinite-(Ce)               | NaCaCeF <sub>6</sub>                                                                                                                                                   | Rd | 1993-038  | Canada                                     | <i>Canadian Mineralogist</i> <b>34</b> (1996), 1299                                          | <i>Canadian Journal of Mineralogy and Petrology</i> <b>61</b> (2023), 593 |
| Gagarinite-(Y)                | NaCaYF <sub>6</sub>                                                                                                                                                    | A  | 1967 s.p. | Kazakhstan                                 | <i>Doklady Akademii Nauk SSSR</i> <b>141</b> (1961), 954                                     | <i>Canadian Mineralogist</i> <b>32</b> (1994), 563                        |
| Gageite                       | Mn <sup>2+</sup> <sub>21</sub> Si <sub>8</sub> O <sub>27</sub> (OH) <sub>20</sub>                                                                                      | G  | 1910      | USA                                        | <i>American Journal of Science</i> <b>30</b> (1910), 283                                     | <i>American Mineralogist</i> <b>72</b> (1987), 382                        |
| Gahnite                       | ZnAl <sub>2</sub> O <sub>4</sub>                                                                                                                                       | G  | 1807      | Sweden                                     | <i>Efemeriden der Berg- und Huttenkunde</i> <b>3</b> (1807), 75                              | <i>Physics and Chemistry of Minerals</i> <b>46</b> (2019), 343            |
| Gaidonnayite                  | Na <sub>2</sub> ZrSi <sub>3</sub> O <sub>9</sub> (H <sub>2</sub> O) <sub>2</sub>                                                                                       | A  | 1973-008  | Canada                                     | <i>Canadian Mineralogist</i> <b>12</b> (1974), 316                                           | <i>Canadian Mineralogist</i> <b>24</b> (1986), 417                        |
| Gaidunite                     | Hg <sup>2+</sup> <sub>3</sub> [NHg <sup>2+</sup> <sub>2</sub> ] <sub>18</sub> (Cl,I) <sub>24</sub>                                                                     | A  | 2018-029  | USA                                        | <i>Canadian Mineralogist</i> <b>57</b> (2019), 295                                           |                                                                           |
| Gainesite                     | Na <sub>2</sub> BeZr <sub>2</sub> (PO <sub>4</sub> ) <sub>4</sub> ·1.5H <sub>2</sub> O                                                                                 | A  | 1978-020  | USA                                        | <i>American Mineralogist</i> <b>68</b> (1983), 1022                                          | <i>Canadian Mineralogist</i> <b>32</b> (1994), 839                        |
| Gaitite                       | Ca <sub>2</sub> Zn(AsO <sub>4</sub> ) <sub>2</sub> (H <sub>2</sub> O) <sub>2</sub>                                                                                     | A  | 1978-047  | Namibia                                    | <i>Canadian Mineralogist</i> <b>18</b> (1980), 197                                           | <i>European Journal of Mineralogy</i> <b>16</b> (2004), 353               |
| Gajardoite                    | KCa <sub>0.5</sub> As <sup>3+</sup> <sub>4</sub> O <sub>6</sub> Cl <sub>2</sub> (H <sub>2</sub> O) <sub>3</sub> ·2H <sub>2</sub> O                                     | A  | 2015-040  | Chile                                      | <i>Mineralogical Magazine</i> <b>80</b> (2016), 1265                                         |                                                                           |
| Gajardoite-(NH <sub>4</sub> ) | (NH <sub>4</sub> )As <sup>3+</sup> <sub>4</sub> O <sub>6</sub> Cl <sub>2</sub> (Ca <sub>0.5</sub> □ <sub>0.5</sub> )(H <sub>2</sub> O) <sub>3</sub> ·2H <sub>2</sub> O | A  | 2023-070  | Russia                                     | <i>Mineralogy (Russia)</i> <b>10</b> (2024), 5                                               |                                                                           |
| Galaxite                      | Mn <sup>2+</sup> Al <sub>2</sub> O <sub>4</sub>                                                                                                                        | G  | 1932      | USA                                        | <i>American Mineralogist</i> <b>17</b> (1932), 1                                             | <i>Mineralogical Magazine</i> <b>82</b> (2018), 975                       |
| Galeacolumbite                | Al <sub>6</sub> (AsO <sub>4</sub> ) <sub>3</sub> (OH) <sub>9</sub> (H <sub>2</sub> O) <sub>4</sub> ·8H <sub>2</sub> O                                                  | A  | 2020-052  | France                                     | <i>Mineralogical Magazine</i> <b>85</b> (2021), 142                                          |                                                                           |
| Gaiteite                      | Na <sub>15</sub> (SO <sub>4</sub> ) <sub>5</sub> ClF <sub>4</sub>                                                                                                      | A  | 1967 s.p. | USA                                        | <i>Geological Society of America Bulletin</i> <b>66</b> (1955), 1658                         | <i>Symmetry</i> <b>15</b> (2023), 1871                                    |
| Galena                        | PbS                                                                                                                                                                    | G  | ?         | unknown                                    | original paper?                                                                              | <i>Acta Crystallographica</i> <b>C43</b> (1987), 1443                     |
| Galenobismutite               | PbBi <sub>2</sub> S <sub>4</sub>                                                                                                                                       | G  | 1878      | Sweden                                     | <i>Geologiska Föreningens i Stockholm Förhandlingar</i> <b>4</b> (1878), 106                 | <i>Physics and Chemistry of Minerals</i> <b>34</b> (2007), 467            |
| Galgenbergite-(Ce)            | CaCe <sub>2</sub> (CO <sub>3</sub> ) <sub>4</sub> (H <sub>2</sub> O)                                                                                                   | A  | 1997-036  | Austria                                    | <i>Mitteilungen der Österreichischen Mineralogischen Gesellschaft</i> <b>143</b> (1998), 200 | <i>Mineralogy and Petrology</i> <b>107</b> (2013), 189                    |
| Galileiite                    | Na <sub>3</sub> Fe <sup>2+</sup> Fe <sup>2+</sup> <sub>11</sub> (PO <sub>4</sub> ) <sub>9</sub>                                                                        | Rd | 1996-028  | USA (meteorite)                            | <i>Meteoritics &amp; Planetary Science</i> <b>32</b> (1997), A155                            |                                                                           |
| Galkhaite                     | (Hg <sub>5</sub> Cu)CsAs <sub>4</sub> S <sub>12</sub>                                                                                                                  | A  | 1971-029  | Kyrgyzstan / Russia                        | <i>Doklady Akademii Nauk SSSR</i> <b>205</b> (1972), 1194                                    | <i>Canadian Mineralogist</i> <b>52</b> (2014), 873                        |
| Gallikiite                    | Ca <sub>4</sub> Al <sub>2</sub> (PO <sub>4</sub> ) <sub>2</sub> F <sub>8</sub> (H <sub>2</sub> O) <sub>5</sub>                                                         | A  | 2009-038  | Argentina                                  | <i>American Mineralogist</i> <b>95</b> (2010), 392                                           |                                                                           |
| Gallite                       | CuGaS <sub>2</sub>                                                                                                                                                     | G  | 1958      | Democratic Republic of the Congo / Namibia | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1958), 241                                | <i>Journal of Chemical Physics</i> <b>59</b> (1973), 5415                 |
| Gallobaudantite               | PbGa <sub>3</sub> (AsO <sub>4</sub> )(SO <sub>4</sub> )(OH) <sub>6</sub>                                                                                               | A  | 1994-021  | Namibia                                    | <i>Canadian Mineralogist</i> <b>34</b> (1996), 1305                                          |                                                                           |
| Gallopumbogummite             | Pb(Ga,Al,Ge) <sub>3</sub> (PO <sub>4</sub> ) <sub>2</sub> (OH) <sub>6</sub>                                                                                            | A  | 2010-088  | Namibia                                    | <i>Journal of Mineralogy and Geochemistry</i> <b>191</b> (2014), 301                         |                                                                           |
| Galuskinite                   | Ca <sub>7</sub> (SiO <sub>4</sub> ) <sub>3</sub> (CO <sub>3</sub> )                                                                                                    | A  | 2010-075  | Russia                                     | <i>Mineralogical Magazine</i> <b>75</b> (2011), 2631                                         |                                                                           |

|                |                                                                                                                                             |    |           |                                  |                                                                                                     |                                                                        |
|----------------|---------------------------------------------------------------------------------------------------------------------------------------------|----|-----------|----------------------------------|-----------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|
| Gamagarite     | $\text{Ba}_2\text{Fe}^{3+}(\text{VO}_4)_2(\text{OH})$                                                                                       | G  | 1943      | South Africa                     | <i>American Mineralogist</i> <b>28</b> (1943), 329                                                  | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1987), 295          |
| Gananite       | $\text{BiF}_3$                                                                                                                              | A  | 1983-006  | China                            | <i>Acta Petrologica Mineralogica et Analytica</i> <b>3</b> (1984), 119                              |                                                                        |
| Ganomalite     | $\text{Pb}_9\text{Ca}_6(\text{Si}_2\text{O}_7)_4(\text{SiO}_4)_4\text{O}$                                                                   | G  | 1876      | Sweden                           | <i>Geologiska Föreningens i Stockholm Förhandlingar</i> <b>3</b> (1876), 119                        | <i>Zeitschrift für Kristallographie</i> <b>212</b> (1997), 208         |
| Ganophyllite   | $\text{K}_x\text{Mn}^{2+}_6(\text{Si,Al})_{10}\text{O}_{24}(\text{OH})_4(\text{H}_2\text{O})_n$<br>( $x = 1-2$ ; $n = 7-11$ )               | G  | 1890      | Sweden                           | <i>Geologiska Föreningens i Stockholm Förhandlingar</i> <b>12</b> (1890), 586                       | <i>American Mineralogist</i> <b>88</b> (2003), 1324                    |
| Ganterite      | $\text{Ba}_{0.5}(\text{Na,K})_{0.5}\text{Al}_2(\text{Si}_{2.5}\text{Al}_{1.5})\text{O}_{10}(\text{OH})_2$                                   | A  | 2000-033  | Switzerland                      | <i>Canadian Mineralogist</i> <b>41</b> (2003), 1271                                                 |                                                                        |
| Gaotaiite      | $\text{Ir}_3\text{Te}_8$                                                                                                                    | A  | 1993-017  | China                            | <i>Acta Mineralogica Sinica</i> <b>15</b> (1995), 1                                                 |                                                                        |
| Garavellite    | $\text{FeSbBiS}_4$                                                                                                                          | A  | 1978-018  | Italy                            | <i>Mineralogical Magazine</i> <b>43</b> (1979), 99                                                  | <i>Mineralogy and Petrology</i> <b>85</b> (2005), 131                  |
| Garmite        | $\text{CsLiMg}_2(\text{Si}_4\text{O}_{10})\text{F}_2$                                                                                       | A  | 2017-008  | Tajikistan                       | <i>Zapiski Rossiyskogo Mineralogicheskogo Obshchestva</i> <b>151(4)</b> (2022), 18                  |                                                                        |
| Garpenbergite  | $\text{Mn}_6\text{□AsSbO}_{10}(\text{OH})_2$                                                                                                | A  | 2020-099  | Sweden                           | <i>Mineralogical Magazine</i> <b>86</b> (2022), 1                                                   |                                                                        |
| Garrelsite     | $\text{NaBa}_3\text{B}_7\text{Si}_2\text{O}_{16}(\text{OH})_4$                                                                              | G  | 1955      | USA                              | <i>Geological Society of America Bulletin</i> <b>66</b> (1955), 1597                                | <i>Acta Crystallographica</i> <b>B32</b> (1976), 824                   |
| Garronite-Ca   | $\text{Ca}_3(\text{Al}_6\text{Si}_{10}\text{O}_{32}) \cdot 14\text{H}_2\text{O}$                                                            | Rn | 1997 s.p. | United Kingdom                   | <i>Mineralogical Magazine</i> <b>33</b> (1962), 173                                                 | <i>American Mineralogist</i> <b>77</b> (1992), 189                     |
| Garronite-Na   | $\text{Na}_6(\text{Al}_6\text{Si}_{10}\text{O}_{32}) \cdot 8.5\text{H}_2\text{O}$                                                           | A  | 2015-015  | Canada                           | <i>Canadian Mineralogist</i> <b>54</b> (2016), 1549                                                 | <i>Canadian Mineralogist</i> <b>60</b> (2022), 91                      |
| Gartrellite    | $\text{PbCuFe}^{3+}(\text{AsO}_4)_2(\text{OH})(\text{H}_2\text{O})$                                                                         | Rd | 1988-039  | Australia                        | <i>Australian Mineralogist</i> <b>4</b> (1989), 83                                                  | <i>European Journal of Mineralogy</i> <b>10</b> (1998), 179            |
| Garutiite      | (Ni,Fe,Ir)                                                                                                                                  | A  | 2008-055  | Dominican Republic               | <i>European Journal of Mineralogy</i> <b>22</b> (2010), 293                                         |                                                                        |
| Garyansellite  | $\text{Mg}_2\text{Fe}^{3+}(\text{PO}_4)_2(\text{OH})(\text{H}_2\text{O})_2$                                                                 | A  | 1981-019  | Canada                           | <i>American Mineralogist</i> <b>69</b> (1984), 207                                                  | <i>Doklady Earth Sciences</i> <b>467</b> (2016), 299                   |
| Gasparite-(Ce) | $\text{Ce}(\text{AsO}_4)$                                                                                                                   | A  | 1986-031  | Italy                            | <i>Schweizerische Mineralogische und Petrographische Mitteilungen</i> <b>67</b> (1987), 103         | <i>Mineralogical Magazine</i> <b>86</b> (2022), 150                    |
| Gasparite-(La) | $\text{La}(\text{AsO}_4)$                                                                                                                   | A  | 2018-079  | Kazakhstan                       | <i>American Mineralogist</i> <b>104</b> (2019), 1469                                                |                                                                        |
| Gaspéite       | $\text{Ni}(\text{CO}_3)$                                                                                                                    | Rn | 1965-029  | Canada                           | <i>American Mineralogist</i> <b>51</b> (1966), 677                                                  | <i>Physics and Chemistry of Minerals</i> <b>48</b> (2021), 7           |
| Gatedalite     | $\text{ZrMn}^{2+}_2\text{Mn}^{3+}_4\text{O}_8(\text{SiO}_4)$                                                                                | A  | 2013-091  | Sweden                           | <i>Mineralogical Magazine</i> <b>79</b> (2015), 625                                                 |                                                                        |
| Gatehouseite   | $\text{Mn}^{2+}_5(\text{PO}_4)_2(\text{OH})_4$                                                                                              | A  | 1992-016  | Australia                        | <i>Mineralogical Magazine</i> <b>57</b> (1993), 309                                                 | <i>Mineralogical Magazine</i> <b>75</b> (2011), 2823                   |
| Gatelite-(Ce)  | $(\text{Ca,Ce})_4(\text{Al,Mg,Fe})_4(\text{Si}_2\text{O}_7)(\text{SiO}_4)_3(\text{O,F,OH})_3$                                               | A  | 2001-050  | France                           | <i>American Mineralogist</i> <b>88</b> (2003), 223                                                  |                                                                        |
| Gatewayite     | $\text{Ca}_6(\text{H}_2\text{O})_{23}(\text{As}^{3+}\text{V}^{4+}_3\text{V}^{5+}_9\text{As}^{5+}_6\text{O}_{51}) \cdot 8\text{H}_2\text{O}$ | A  | 2014-096  | USA                              | <i>Canadian Mineralogist</i> <b>54</b> (2016), 145                                                  |                                                                        |
| Gatumbaite     | $\text{CaAl}_2(\text{PO}_4)_2(\text{OH})_2 \cdot \text{H}_2\text{O}$                                                                        | A  | 1976-019  | Rwanda                           | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1977), 561                                       |                                                                        |
| Gaodefroyite   | $\text{Ca}_4\text{Mn}^{3+}_3(\text{BO}_3)_3(\text{CO}_3)\text{O}_3$                                                                         | A  | 1964-006  | Morocco                          | <i>Bulletin de la Société Française de Minéralogie et de Cristallographie</i> <b>87</b> (1964), 216 | <i>Canadian Mineralogist</i> <b>46</b> (2008), 183                     |
| Gaultite       | $\text{Na}_4\text{Zn}_2\text{Si}_7\text{O}_{18}(\text{H}_2\text{O})_5$                                                                      | A  | 1992-040  | Canada                           | <i>Canadian Mineralogist</i> <b>32</b> (1994), 855                                                  |                                                                        |
| Gauthierite    | $\text{KPb}(\text{UO}_2)_7\text{O}_5(\text{OH})_7(\text{H}_2\text{O})_4 \cdot 4\text{H}_2\text{O}$                                          | A  | 2016-004  | Democratic Republic of the Congo | <i>European Journal of Mineralogy</i> <b>29</b> (2017), 129                                         |                                                                        |
| Gayite         | $\text{NaMnFe}_5(\text{PO}_4)_4(\text{OH})_6(\text{H}_2\text{O})_2$                                                                         | A  | 2008-056  | Argentina                        | <i>American Mineralogist</i> <b>95</b> (2010), 386                                                  |                                                                        |
| Gaylussite     | $\text{Na}_2\text{Ca}(\text{CO}_3)_2(\text{H}_2\text{O})_5$                                                                                 | G  | 1826      | Venezuela                        | <i>Annales de Chimie et de Physique</i> <b>31</b> (1826), 270                                       | <i>Atti della Accademia Nazionale dei Lincei</i> <b>44</b> (1968), 680 |
| Gazeevite      | $\text{BaCa}_6(\text{SiO}_4)_2(\text{SO}_4)_2\text{O}$                                                                                      | A  | 2015-037  | Georgia / Israel                 | <i>Mineralogical Magazine</i> <b>81</b> (2017), 499                                                 |                                                                        |

|                    |                                                                                                                                                             |    |           |                     |                                                                                                                          |                                                          |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----------|---------------------|--------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|
| Gearskutite        | $\text{CaAlF}_4(\text{OH})(\text{H}_2\text{O})$                                                                                                             | A  | 1962 s.p. | Denmark (Greenland) | A System of Mineralogy, 5th ed. Wiley, New York (1868), 130                                                              | Moscow University Geology Bulletin <b>68</b> (2013), 305 |
| Gebhardite         | $\text{Pb}_8\text{As}^{3+}_4\text{O}_{11}\text{Cl}_6$                                                                                                       | A  | 1979-071  | Namibia             | Neues Jahrbuch für Mineralogie Monatshefte (1983), 445                                                                   | Zeitschrift für Kristallographie <b>159</b> (1982), 75   |
| Gedrite            | $\square\text{Mg}_2(\text{Mg}_3\text{Al}_2)(\text{Si}_6\text{Al}_2)\text{O}_{22}(\text{OH})_2$                                                              | Rd | 2012 s.p. | France              | Annales des Mines <b>10</b> (1836), 582                                                                                  | Crystals <b>9</b> (2019), 521                            |
| Geerite            | $\text{Cu}_6\text{S}_5$                                                                                                                                     | A  | 1978-024  | USA                 | Canadian Mineralogist <b>18</b> (1980), 519                                                                              | Canadian Mineralogist <b>23</b> (1985), 61               |
| Geffroyite         | $(\text{Cu}, \text{Fe}, \text{Ag})_9\text{Se}_8$                                                                                                            | A  | 1980-090  | France              | Tschermaks Mineralogische und Petrographische Mitteilungen <b>29</b> (1982), 151                                         |                                                          |
| Gehlenite          | $\text{Ca}_2\text{Al}(\text{SiAl})\text{O}_7$                                                                                                               | G  | 1815      | Italy               | Journal of Chemical Physics <b>15</b> (1815), 377                                                                        | Minerals <b>10</b> (2020), 677                           |
| Geigerite          | $\text{Mn}^{2+}_5(\text{AsO}_4)_2(\text{AsO}_3\text{OH})_2(\text{H}_2\text{O})_8 \cdot 2\text{H}_2\text{O}$                                                 | A  | 1985-028  | Switzerland         | American Mineralogist <b>74</b> (1989), 676                                                                              |                                                          |
| Geikielite         | $\text{MgTiO}_3$                                                                                                                                            | G  | 1893      | Sri Lanka           | Mineralogical Magazine <b>10</b> (1893), 145                                                                             | European Journal of Mineralogy <b>31</b> (2019), 473     |
| Gelosaite          | $\text{BiMo}^{6+}_{(2-5x)}\text{Mo}^{5+}_{6x}\text{O}_7(\text{OH})(\text{H}_2\text{O})$ [0 < x < 0.4]                                                       | A  | 2009-022  | Italy               | American Mineralogist <b>96</b> (2011), 268                                                                              |                                                          |
| Geminite           | $\text{Cu}^{2+}(\text{AsO}_3\text{OH})(\text{H}_2\text{O})$                                                                                                 | A  | 1988-045  | France              | Schweizerische Mineralogische und Petrographische Mitteilungen <b>70</b> (1990), 309                                     | European Journal of Mineralogy <b>32</b> (2020), 285     |
| Gengenbachite      | $\text{KFe}_3(\text{H}_2\text{PO}_4)_2(\text{HPO}_4)_4(\text{H}_2\text{O})_6$                                                                               | A  | 2001-003b | Germany             | Aufschluss <b>58</b> (2007), 125                                                                                         | Canadian Mineralogist <b>51</b> (2013), 223              |
| Genkinitite        | $\text{Pt}_4\text{Sb}_3$                                                                                                                                    | A  | 1976-051  | South Africa        | Canadian Mineralogist <b>15</b> (1977), 389                                                                              | Canadian Mineralogist <b>26</b> (1988), 979              |
| Genplesite         | $\text{Ca}_3\text{Sn}(\text{SO}_4)_2(\text{OH})_6(\text{H}_2\text{O})_3$                                                                                    | A  | 2014-034  | Russia              | European Journal of Mineralogy <b>30</b> (2018), 375                                                                     |                                                          |
| Genthelvitite      | $\text{Be}_3\text{Zn}_4(\text{SiO}_4)_3\text{S}$                                                                                                            | G  | 1944      | USA                 | American Mineralogist <b>29</b> (1944), 163                                                                              | Mineralogical Magazine <b>88</b> (2024), 111             |
| Geocronite         | $\text{Pb}_{14}\text{Sb}_6\text{S}_{23}$                                                                                                                    | G  | 1840      | Sweden              | Annalen der Physik und Chemie <b>21</b> (1840), 535                                                                      | Minerals <b>6</b> (2016), 15                             |
| Georgbarsanovite   | $\text{Na}_{12}(\text{Mn}, \text{Sr}, \text{REE})_3\text{Ca}_6\text{Fe}^{2+}_3\text{Zr}_3\text{NbSi}_{25}\text{O}_{76}\text{Cl}_2 \cdot \text{H}_2\text{O}$ | A  | 2003-013  | Russia              | Zapiski Rossiyskogo Mineralogicheskogo Obshchestva <b>134(6)</b> (2005), 47                                              |                                                          |
| Georgbokiite       | $\text{Cu}_5\text{O}_2(\text{Se}^{4+}\text{O}_3)_2\text{Cl}_2$                                                                                              | A  | 1996-015  | Russia              | Doklady Akademii Nauk <b>364</b> (1999), 527                                                                             | Zeitschrift für Kristallographie <b>214</b> (1999), 135  |
| Georgechaoite      | $\text{KNaZrSi}_3\text{O}_9(\text{H}_2\text{O})_2$                                                                                                          | A  | 1984-024  | USA                 | Canadian Mineralogist <b>23</b> (1985), 1                                                                                | Canadian Mineralogist <b>23</b> (1985), 5                |
| George-ericksenite | $\text{Na}_6\text{CaMg}(\text{IO}_3)_6(\text{CrO}_4)_2(\text{H}_2\text{O})_{12}$                                                                            | Rn | 1996-049  | Chile               | American Mineralogist <b>83</b> (1998), 390                                                                              |                                                          |
| Georgeite          | $[\text{Cu}(\text{OH})_{2-x}(\text{H}_2\text{O})_x][\text{CO}_3]_{x/2}$                                                                                     | Rd | 2023 s.p. | Australia           | Mineralogical Magazine <b>43</b> (1979), 97                                                                              | Mineralogical Magazine <b>55</b> (1991), 163             |
| Georgeliuite       | $\text{Ca}_2\text{Mn}^{3+}_3\text{O}_2(\text{AsO}_4)_3(\text{H}_2\text{O})_2 \cdot \text{H}_2\text{O}$                                                      | A  | 2025-093  | Chile               | CNMNC Newsletter 91 - Mineralogical Magazine <b>90</b> (2026), xxx; European Journal of Mineralogy <b>38</b> (2026), 347 |                                                          |
| Georgerobinsonite  | $\text{Pb}_4(\text{CrO}_4)_2(\text{OH})_2\text{FCl}$                                                                                                        | A  | 2009-068  | USA                 | Canadian Mineralogist <b>49</b> (2011), 865                                                                              |                                                          |
| Georgiadesite      | $\text{Pb}_4(\text{As}^{3+}\text{O}_3)\text{Cl}_4(\text{OH})$                                                                                               | G  | 1907      | Greece              | Comptes Rendus de l'Académie des Sciences de Paris <b>145</b> (1907), 783                                                | Mineralogical Magazine <b>64</b> (2000), 879             |
| Gerasimovskite     | $\text{Mn}^{2+}(\text{Ti}, \text{Nb})_5\text{O}_{12} \cdot 9\text{H}_2\text{O}$ (?)                                                                         | G  | 1957      | Russia              | Akademiya Nauk SSSR, Trudy Institut Mineralogii, Geokhimii i Kristallokhimii Redkikh Elementov <b>1</b> (1957), 41       |                                                          |
| Gerdtrammelite     | $\text{ZnAl}_2(\text{AsO}_4)(\text{OH})_5$                                                                                                                  | A  | 1983-049a | Namibia             | Neues Jahrbuch für Mineralogie Monatshefte (1985), 1                                                                     |                                                          |
| Gerenite-(Y)       | $(\text{Ca}, \text{Na}, \square)_2\text{Y}_3\text{Si}_6\text{O}_{18}(\text{H}_2\text{O})_2$                                                                 | A  | 1993-034  | Canada              | Canadian Mineralogist <b>36</b> (1998), 793                                                                              | Canadian Mineralogist <b>36</b> (1998), 801              |
| Gerhardtite        | $\text{Cu}_2(\text{NO}_3)(\text{OH})_3$                                                                                                                     | G  | 1885      | USA                 | American Journal of Science <b>130</b> (1885), 50                                                                        | Canadian Mineralogist <b>44</b> (2006), 1447             |

|                 |                                                                                                        |    |           |                                                   |                                                                                                                                        |                                                                                  |
|-----------------|--------------------------------------------------------------------------------------------------------|----|-----------|---------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
| Germanite       | $\text{Cu}_{13}\text{Fe}_2\text{Ge}_2\text{S}_{16}$                                                    | G  | 1922      | Namibia                                           | <i>Metall und Erz</i> <b>19</b> (1922), 324                                                                                            | <i>American Mineralogist</i> <b>69</b> (1984), 943                               |
| Germanocolusite | $\text{Cu}_{13}\text{VGe}_3\text{S}_{16}$                                                              | A  | 1991-044  | Russia /<br>Kazakhstan /<br>Namibia /<br>Bulgaria | <i>Vestnik Moskovskogo Universiteta, Ser. 4 Geologiya</i> <b>1992(6)</b> , 50                                                          | <i>New Data on Minerals</i> <b>38</b> (2003), 41                                 |
| Gersdorffite    | $\text{NiAsS}$                                                                                         | Rn | 2022 s.p. | Austria                                           | Handbuch der Bestimmenden Mineralogie. Braumüller and Seidel, Wien (1845), 559                                                         | <i>European Journal of Mineralogy</i> <b>33</b> (2021), 717                      |
| Gerstleyite     | $\text{Na}_2(\text{Sb,As})_8\text{S}_{13}(\text{H}_2\text{O})_2$                                       | G  | 1956      | USA                                               | <i>American Mineralogist</i> <b>41</b> (1956), 839                                                                                     | <i>Chemistry Letters</i> <b>10</b> (1981), 1327                                  |
| Gerstmannite    | $\text{Mn}^{2+}\text{MgZn}(\text{SiO}_4)(\text{OH})_2$                                                 | A  | 1975-030  | USA                                               | <i>American Mineralogist</i> <b>62</b> (1977), 51                                                                                      |                                                                                  |
| Geschieberite   | $\text{K}_2(\text{UO}_2)(\text{SO}_4)_2(\text{H}_2\text{O})_2$                                         | A  | 2014-006  | Czech Republic                                    | <i>Mineralogical Magazine</i> <b>79</b> (2015), 205                                                                                    |                                                                                  |
| Getchellite     | $\text{SbAsS}_3$                                                                                       | A  | 1965-010  | USA                                               | <i>American Mineralogist</i> <b>50</b> (1965), 1817                                                                                    | <i>American Mineralogist</i> <b>89</b> (2004), 696                               |
| Geuerite        | $\text{Ag}_2\text{Ti}_4\text{Pb}_4\text{As}_{22}\text{S}_{40}$                                         | A  | 2019-027a | Switzerland                                       | CNMNC Newsletter 77 - <i>Mineralogical Magazine</i> <b>88</b> (2024), 203; <i>European Journal of Mineralogy</i> <b>36</b> (2024), 165 |                                                                                  |
| Geversite       | $\text{PtSb}_2$                                                                                        | A  | 1967 s.p. | South Africa                                      | <i>Mineralogical Magazine</i> <b>32</b> (1961), 833                                                                                    | <i>Zeitschrift für Anorganische und Allgemeine Chemie</i> <b>620</b> (1994), 393 |
| Ghiaraite       | $\text{CaCl}_2(\text{H}_2\text{O})_4$                                                                  | A  | 2012-072  | Italy                                             | <i>American Mineralogist</i> <b>99</b> (2014), 519                                                                                     |                                                                                  |
| Giacovazzoite   | $\text{K}_5\text{Fe}^{3+}_3\text{O}(\text{SO}_4)_6(\text{H}_2\text{O})_9 \cdot \text{H}_2\text{O}$     | A  | 2018-165  | Italy                                             | <i>Physics and Chemistry of Minerals</i> <b>47</b> (2020), 7                                                                           |                                                                                  |
| Gianellaite     | $(\text{Hg}_2\text{N})_2(\text{SO}_4)(\text{H}_2\text{O})_x$                                           | A  | 1972-020  | USA                                               | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1977), 119                                                                          | <i>Mineralogical Magazine</i> <b>80</b> (2016), 869                              |
| Gibbsite        | $\text{Al}(\text{OH})_3$                                                                               | A  | 1962 s.p. | USA                                               | <i>New-York Medical and Physical Journal</i> <b>1</b> (1822), 68                                                                       | <i>Inorganic Materials</i> <b>48</b> (2012), 142                                 |
| Giessenite      | $(\text{Cu,Fe})_2\text{Pb}_{26.4}(\text{Bi,Sb})_{19.6}\text{S}_{57}$                                   | A  | 1963-004  | Switzerland                                       | <i>Schweizerische Mineralogische und Petrographische Mitteilungen</i> <b>43</b> (1963), 471                                            | <i>Canadian Mineralogist</i> <b>24</b> (1986), 21                                |
| Giftgrubeite    | $\text{CaMn}_2\text{Ca}_2(\text{AsO}_3\text{OH})_2(\text{AsO}_4)_2(\text{H}_2\text{O})_4$              | A  | 2016-102  | France                                            | <i>Journal of Geosciences</i> <b>64</b> (2019), 73                                                                                     |                                                                                  |
| Gilalite        | $\text{Cu}_5\text{Si}_6\text{O}_{17} \cdot 7\text{H}_2\text{O}$                                        | A  | 1979-021  | USA                                               | <i>Mineralogical Magazine</i> <b>43</b> (1980), 639                                                                                    |                                                                                  |
| Gillardite      | $\text{Cu}_3\text{Ni}(\text{OH})_6\text{Cl}_2$                                                         | A  | 2006-041  | Australia                                         | <i>Australian Journal of Mineralogy</i> <b>13</b> (2007), 15                                                                           | <i>Mineralogical Magazine</i> <b>81</b> (2017), 123                              |
| Gillespite      | $\text{BaFe}^{2+}\text{Si}_4\text{O}_{10}$                                                             | A  | 1922      | USA                                               | <i>Journal of the Washington Academy of Sciences</i> <b>12</b> (1922), 7                                                               | <i>American Mineralogist</i> <b>59</b> (1974), 1166                              |
| Gillulyite      | $\text{Ti}_2\text{As}_{7.5}\text{Sb}_{0.3}\text{S}_{13}$                                               | A  | 1989-029  | USA                                               | <i>American Mineralogist</i> <b>76</b> (1991), 653                                                                                     | <i>American Mineralogist</i> <b>84</b> (1999), 400                               |
| Gilmarite       | $\text{Cu}^{2+}_3(\text{AsO}_4)(\text{OH})_3$                                                          | A  | 1996-017  | France                                            | <i>European Journal of Mineralogy</i> <b>11</b> (1999), 549                                                                            |                                                                                  |
| Ginelfite       | $\text{Ag}_2(\text{Ag}_{0.5}\text{Fe}^{2+}_{0.5})\text{TlPb}_{23.5}(\text{Sb,As})_{33.5}\text{S}_{76}$ | A  | 2022-110  | France                                            | <i>European Journal of Mineralogy</i> <b>37</b> (2025), 319                                                                            |                                                                                  |
| Giniite         | $\text{Fe}^{2+}\text{Fe}^{3+}_4(\text{PO}_4)_4(\text{OH})_2(\text{H}_2\text{O})_2$                     | A  | 1977-017  | Namibia                                           | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1980), 49                                                                           | <i>American Mineralogist</i> <b>108</b> (2023), 430                              |
| Ginorite        | $\text{Ca}_2\text{B}_{14}\text{O}_{20}(\text{OH})_6(\text{H}_2\text{O})_3 \cdot 2\text{H}_2\text{O}$   | G  | 1934      | Italy                                             | <i>Periodico di Mineralogia</i> <b>5</b> (1934), 22                                                                                    | <i>European Journal of Mineralogy</i> <b>30</b> (2018), 277                      |
| Giorgiosite     | $\text{Mg}_5(\text{CO}_3)_4(\text{OH})_2 \cdot 5\text{H}_2\text{O}$                                    | Q  | 1905      | Greece                                            | <i>Comptes Rendus de l'Académie des Sciences de Paris</i> <b>140</b> (1905), 1308                                                      | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1975), 196                    |
| Giraudite-(Zn)  | $\text{Cu}_6(\text{Cu}_4\text{Zn}_2)\text{As}_4\text{Se}_{13}$                                         | Rd | 2019 s.p. | France                                            | <i>Tschermaks Mineralogische und Petrographische Mitteilungen</i> <b>29</b> (1982), 151                                                | <i>Canadian Mineralogist</i> <b>40</b> (2002), 1161                              |
| Girvasite       | $\text{NaCa}_2\text{Mg}_3(\text{PO}_4)_3(\text{CO}_3)(\text{H}_2\text{O})_6$                           | A  | 1988-046  | Russia                                            | <i>Mineralogicheskij Zhurnal</i> <b>12(3)</b> (1990), 79                                                                               | <i>Russian Geology and Geophysics</i> <b>56</b> (2015), 155                      |

|                  |                                                                                                                                       |    |           |             |                                                                                                                                         |                                                                                             |
|------------------|---------------------------------------------------------------------------------------------------------------------------------------|----|-----------|-------------|-----------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| Gismondine-Ca    | $\text{Ca}_2(\text{Si}_4\text{Al}_4)\text{O}_{16} \cdot 8\text{H}_2\text{O}$                                                          | Rn | 1997 s.p. | Italy       | <i>Taschenbuch für die gesamte Mineralogie mit Hinsicht auf die neuesten Entdeckungen</i> <b>11</b> (1817), 164                         | <i>American Mineralogist</i> <b>98</b> (2013), 1988                                         |
| Gismondine-Sr    | $\text{Sr}_4(\text{Si}_8\text{Al}_8\text{O}_{32}) \cdot 9\text{H}_2\text{O}$                                                          | A  | 2021-043  | Israel      | <i>American Mineralogist</i> <b>108</b> (2023), 249                                                                                     | <i>Mineralogical Magazine</i> <b>87</b> (2023), 443                                         |
| Gittinsite       | $\text{CaZrSi}_2\text{O}_7$                                                                                                           | A  | 1979-034  | Canada      | <i>Canadian Mineralogist</i> <b>18</b> (1980), 201                                                                                      | <i>Canadian Mineralogist</i> <b>27</b> (1989), 703                                          |
| Giuşcăite        | $\text{Ag}_2\text{Ti}_4\text{Pb}_4\text{As}_{20}\text{Sb}_2\text{S}_{40}$                                                             | A  | 2023-099  | Switzerland | CNMNC Newsletter 77 - <i>Mineralogical Magazine</i> <b>88</b> (2024), 203; <i>European Journal of Mineralogy</i> <b>36</b> (2024), 165  |                                                                                             |
| Giuseppettite    | $\text{Na}_{42}\text{K}_{16}\text{Ca}_6\text{Si}_{48}\text{Al}_{48}\text{O}_{192}(\text{SO}_4)_{10}\text{Cl}_2(\text{H}_2\text{O})_5$ | A  | 1979-064  | Italy       | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1981), 103                                                                           | <i>Microporous and Mesoporous Materials</i> <b>73</b> (2004), 129                           |
| Gjerdingenite-Ca | $\text{K}_2\text{Ca}(\text{Nb}, \text{Ti})_4(\text{Si}_4\text{O}_{12})_2(\text{O}, \text{OH})_4 \cdot 6\text{H}_2\text{O}$            | A  | 2005-029  | Russia      | <i>Canadian Mineralogist</i> <b>45</b> (2007), 529                                                                                      | <i>Doklady Chemistry</i> <b>414</b> (2007), 109                                             |
| Gjerdingenite-Fe | $\text{K}_2\text{Fe}(\text{Nb}, \text{Ti})_4(\text{Si}_4\text{O}_{12})_2(\text{O}, \text{OH})_4 \cdot 6\text{H}_2\text{O}$            | A  | 2001-009  | Norway      | <i>Canadian Mineralogist</i> <b>40</b> (2002), 1629                                                                                     |                                                                                             |
| Gjerdingenite-Mn | $\text{K}_2\text{Mn}(\text{Nb}, \text{Ti})_4(\text{Si}_4\text{O}_{12})_2(\text{O}, \text{OH})_4 \cdot 6\text{H}_2\text{O}$            | A  | 2003-015  | Norway      | <i>European Journal of Mineralogy</i> <b>16</b> (2004), 979                                                                             |                                                                                             |
| Gjerdingenite-Na | $\text{K}_2\text{Na}(\text{Nb}, \text{Ti})_4(\text{Si}_4\text{O}_{12})_2(\text{OH}, \text{O})_4 \cdot 5\text{H}_2\text{O}$            | A  | 2005-030  | Canada      | <i>Canadian Mineralogist</i> <b>45</b> (2007), 529                                                                                      | <i>Doklady Chemistry</i> <b>414</b> (2007), 109                                             |
| Gladite          | $\text{CuPbBi}_5\text{S}_9$                                                                                                           | G  | 1924      | Sweden      | <i>Arkiv för Kemi, Mineralogi och Geologi</i> <b>9</b> (1924), 1                                                                        | <i>Canadian Mineralogist</i> <b>40</b> (2002), 1147                                         |
| Gladiusite       | $\text{Fe}^{3+}_2\text{Fe}^{2+}_4(\text{PO}_4)(\text{OH})_{11}(\text{H}_2\text{O})$                                                   | A  | 1998-011  | Russia      | <i>Canadian Mineralogist</i> <b>38</b> (2000), 1477                                                                                     | <i>Canadian Mineralogist</i> <b>39</b> (2001), 1121                                         |
| Gladkovskyite    | $\text{MnTiAs}_3\text{S}_6$                                                                                                           | A  | 2018-098  | Russia      | <i>Journal of Geosciences</i> <b>64</b> (2019), 207                                                                                     |                                                                                             |
| Glagolevite      | $\text{Na}(\text{Mg}, \text{Al})_6(\text{Si}_3\text{Al})\text{O}_{10}(\text{OH}, \text{O})_8$                                         | A  | 2001-064  | Russia      | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>132(1)</b> (2003), 67                                                   | <i>American Mineralogist</i> <b>89</b> (2004), 1138                                         |
| Glauberite       | $\text{Na}_2\text{Ca}(\text{SO}_4)_2$                                                                                                 | G  | 1808      | Spain       | <i>Journal des Mines</i> <b>23</b> (1808), 5                                                                                            | <i>Zeitschrift für Kristallographie</i> <b>122</b> (1965), 175                              |
| Glaucocerinite   | $(\text{Zn}_{1-x}\text{Al}_x)(\text{SO}_4)_{x/2}(\text{OH})_2 \cdot n\text{H}_2\text{O}$ ( $x < 0.5$ , $n > 3x/2$ )                   | G  | 1932      | Greece      | <i>Centralblatt für Mineralogie, Geologie und Paläontologie</i> <b>1</b> (1932), 13                                                     | <i>Mineralogical Magazine</i> <b>49</b> (1985), 583                                         |
| Glaucocroite     | $\text{CaMn}^{2+}(\text{SiO}_4)$                                                                                                      | G  | 1899      | USA         | <i>American Journal of Science</i> <b>8</b> (1899), 339                                                                                 | <i>American Mineralogist</i> <b>63</b> (1978), 365                                          |
| Glaucodot        | $(\text{Co}_{0.5}\text{Fe}_{0.5})\text{AsS}$                                                                                          | G  | 1849      | Chile       | <i>Annalen der Physik und Chemie</i> <b>153</b> (1849), 127                                                                             | <i>American Mineralogist</i> <b>93</b> (2008), 1183                                         |
| Glaucophane      | $\square\text{Na}_2(\text{Mg}_3\text{Al}_2)\text{Si}_8\text{O}_{22}(\text{OH})_2$                                                     | Rd | 2012 s.p. | Greece      | <i>Journal für Praktische Chemie</i> <b>34</b> (1845), 238                                                                              | <i>European Journal of Mineralogy</i> <b>33</b> (2021), 77                                  |
| Glaukosphaerite  | $\text{CuNi}(\text{CO}_3)(\text{OH})_2$                                                                                               | A  | 1972-028  | Australia   | <i>Mineralogical Magazine</i> <b>39</b> (1974), 737                                                                                     | <i>European Journal of Mineralogy</i> <b>18</b> (2006), 787                                 |
| Glecklerite      | $\text{Na}(\text{C}_2\text{H}_3\text{O}_3)$                                                                                           | A  | 2023-071  | USA         | CNMNC Newsletter 76 - <i>Mineralogical Magazine</i> <b>88</b> (2024), 105; <i>European Journal of Mineralogy</i> <b>35</b> (2023), 1073 | <a href="https://doi.org/10.1180/mgm.2026.10239">https://doi.org/10.1180/mgm.2026.10239</a> |
| Glikinite        | $\text{Zn}_3\text{O}(\text{SO}_4)_2$                                                                                                  | A  | 2018-119  | Russia      | <i>Mineralogical Magazine</i> <b>84</b> (2020), 563                                                                                     | <i>Physics and Chemistry of Minerals</i> <b>48</b> (2021), 6                                |
| Glucine          | $\text{CaBe}_4(\text{PO}_4)_2(\text{OH})_4 \cdot 0.5\text{H}_2\text{O}$                                                               | A  | 1967 s.p. | Russia      | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>92</b> (1963), 691                                                        |                                                                                             |
| Glushinskite     | $\text{Mg}(\text{C}_2\text{O}_4)(\text{H}_2\text{O})_2$                                                                               | Rd | 1987 s.p. | Russia      | <i>Izvestiya Akademii Nauk SSSR</i> (1960), 93                                                                                          | <i>Mineralogical Magazine</i> <b>43</b> (1980), 837                                         |
| Gmalimite        | $\text{K}_6\square\text{Fe}^{2+}_{24}\text{S}_{27}$                                                                                   | A  | 2019-007  | Israel      | <i>Minerals</i> <b>15</b> (2025), 564                                                                                                   |                                                                                             |
| Gmelinite-Ca     | $\text{Ca}_2(\text{Si}_6\text{Al}_4)\text{O}_{24} \cdot 11\text{H}_2\text{O}$                                                         | A  | 1997 s.p. | Italy       | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1978), 310                                                                           | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1982), 145                               |

|                |                                                                           |    |           |                        |                                                                                         |                                                                        |
|----------------|---------------------------------------------------------------------------|----|-----------|------------------------|-----------------------------------------------------------------------------------------|------------------------------------------------------------------------|
| Gmelinite-K    | $K_4(Si_8Al_4)O_{24} \cdot 11H_2O$                                        | A  | 1999-039  | Russia / Italy         | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>130(3)</b> (2001), 65   | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1990), 504          |
| Gmelinite-Na   | $Na_4(Si_8Al_4)O_{24} \cdot 11H_2O$                                       | Rn | 1997 s.p. | United Kingdom / Italy | <i>Edinburgh Journal of Science</i> <b>2</b> (1825), 262                                | <i>American Mineralogist</i> <b>95</b> (2010), 1773                    |
| Gobbinsite     | $Na_5(Si_{11}Al_5)O_{32} \cdot 11H_2O$                                    | A  | 1980-070  | United Kingdom         | <i>Mineralogical Magazine</i> <b>46</b> (1982), 365                                     | <i>American Mineralogist</i> <b>95</b> (2010), 481                     |
| Gobelinite     | $CoCu_4(SO_4)_2(OH)_6(H_2O)_6$                                            | A  | 2018-167  | France / Germany       | <i>European Journal of Mineralogy</i> <b>32</b> (2020), 637                             |                                                                        |
| Godlevskite    | $(Ni,Fe)_9S_8$                                                            | A  | 1968-032  | Russia                 | <i>Geologiya Rudnykh Mestorozhdeniy</i> <b>11</b> (1969), 115                           | <i>European Journal of Mineralogy</i> <b>21</b> (2009), 863            |
| Godovikovite   | $(NH_4)Al(SO_4)_2$                                                        | A  | 1987-019  | Russia                 | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>117</b> (1988), 208       | <i>Annales De Chimie - Science Des Matériaux</i> <b>33</b> (2008), 379 |
| Goedkenite     | $Sr_2Al(PO_4)_2(OH)$                                                      | A  | 1974-004  | USA                    | <i>American Mineralogist</i> <b>60</b> (1975), 957                                      |                                                                        |
| Goethite       | $FeO(OH)$                                                                 | A  | 1980 s.p. | Germany                | Tabellen über das gesammte Mineralreich. Göpferdt, Jena (1806), 46                      | <i>American Mineralogist</i> <b>84</b> (1999), 895                     |
| Gold           | Au                                                                        | G  | ?         | unknown                | original paper?                                                                         | <i>Journal of Materials Science</i> <b>23</b> (1988), 757              |
| Goldfieldite   | $(Cu_4\Box_2)Cu_6Te_4S_{13}$                                              | Rd | 2019 s.p. | USA                    | <i>U.S. Geological Survey Professional Paper</i> <b>66</b> (1909), 165                  | <i>Canadian Mineralogist</i> <b>36</b> (1998), 1115                    |
| Goldhillite    | $Cu_5Zn(AsO_4)_2(OH)_6(H_2O)$                                             | A  | 2021-034  | USA                    | <i>Mineralogical Magazine</i> <b>86</b> (2022), 436                                     |                                                                        |
| Goldichite     | $KFe^{3+}(SO_4)_2(H_2O)_4$                                                | G  | 1955      | USA                    | <i>American Mineralogist</i> <b>40</b> (1955), 469                                      | <i>Mineralogy and Petrology</i> <b>112</b> (2018), 135                 |
| Goldmanite     | $Ca_3V^{3+}_2(SiO_4)_3$                                                   | A  | 1963-003  | USA                    | <i>American Mineralogist</i> <b>49</b> (1964), 644                                      | <i>American Mineralogist</i> <b>56</b> (1971), 791                     |
| Goldquarryite  | $CuCd_2Al_3(PO_4)_4F_3(H_2O)_{10}$                                        | A  | 2001-058  | USA                    | <i>Mineralogical Record</i> <b>34</b> (2003), 237                                       | <i>Canadian Mineralogist</i> <b>42</b> (2004), 753                     |
| Goldschmidtite | $KNbO_3$                                                                  | A  | 2018-034  | South Africa           | <i>American Mineralogist</i> <b>104</b> (2019), 1345                                    |                                                                        |
| Golyshevite    | $Na_{10}Ca_9Zr_3Fe_2SiNb(Si_3O_9)_2(Si_9O_{27})_2(OH)_3(CO_3) \cdot H_2O$ | A  | 2004-039  | Russia                 | <i>Zapiski Rossiyskogo Mineralogicheskogo Obshchestva</i> <b>134(6)</b> (2005), 36      | <i>Crystallography Reports</i> <b>50</b> (2005), 539                   |
| Gonnardite     | $(Na,Ca)_2(Si,Al)_5O_{10} \cdot 3H_2O$                                    | Rd | 1997 s.p. | France                 | <i>Bulletin de la Société Minéralogique de France</i> <b>19</b> (1896), 426             | <i>American Mineralogist</i> <b>84</b> (1999), 1445                    |
| Gonyerite      | $Mn^{2+}_5Fe^{3+}(Si_3Fe^{3+}O_{10})(OH)_8$                               | G  | 1955      | Sweden                 | <i>American Mineralogist</i> <b>40</b> (1955), 1090                                     |                                                                        |
| Goosecreekite  | $Ca(Si_6Al_2)O_{16} \cdot 5H_2O$                                          | A  | 1980-004  | USA                    | <i>Canadian Mineralogist</i> <b>18</b> (1980), 323                                      | <i>American Mineralogist</i> <b>96</b> (2011), 1070                    |
| Gorbunovite    | $CsLi_2(Ti,Fe^{3+})Si_4O_{10}(F,OH,O)_2$                                  | A  | 2017-040  | Tajikistan             | <i>Mineralogical Magazine</i> <b>89</b> (2025), 694                                     |                                                                        |
| Gorceixite     | $BaAl_3(PO_4)(PO_3OH)(OH)_6$                                              | G  | 1906      | Brazil                 | <i>Tschermaks Mineralogische und Petrographische Mitteilungen</i> <b>25</b> (1906), 335 | <i>Canadian Mineralogist</i> <b>44</b> (2006), 155                     |
| Gordaite       | $NaZn_4(SO_4)(OH)_6Cl(H_2O)_6$                                            | A  | 1996-006  | Chile                  | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1997), 155                           | <i>Mineralogical Magazine</i> <b>83</b> (2019), 459                    |
| Gordonite      | $MgAl_2(PO_4)_2(OH)_2(H_2O)_6 \cdot 2H_2O$                                | G  | 1930      | USA                    | <i>American Mineralogist</i> <b>15</b> (1930), 307                                      | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1988), 265          |
| Gorerite       | $Ca[AlFe^{3+}_{11}]O_{19}$                                                | A  | 2019-080  | Israel                 | <i>Mineralogical Magazine</i> <b>88</b> (2024), 451                                     |                                                                        |
| Görgeyite      | $K_2Ca_5(SO_4)_6(H_2O)$                                                   | G  | 1953      | Austria                | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1953), 35                            | <i>American Mineralogist</i> <b>89</b> (2004), 266                     |
| Gormanite      | $Fe^{2+}_3Al_4(PO_4)_4(OH)_6(H_2O)_2$                                     | A  | 1977-030  | Canada                 | <i>Canadian Mineralogist</i> <b>19</b> (1981), 381                                      | <i>European Journal of Mineralogy</i> <b>15</b> (2003), 719            |
| Gortdrumite    | $Cu_{24}Fe_2Hg_9S_{23}$                                                   | A  | 1979-039  | Ireland                | <i>Mineralogical Magazine</i> <b>47</b> (1983), 35                                      | <i>Mineralogical Magazine</i> <b>82</b> (2018), 853                    |
| Goryainovite   | $Ca_2(PO_4)Cl$                                                            | A  | 2015-090  | Sweden                 | <i>Geologiska Föreningens i Stockholm Förhandlingar</i> <b>139</b> (2017), 75           |                                                                        |

|                     |                                                                                                                   |    |           |                                  |                                                                                |                                                                                             |
|---------------------|-------------------------------------------------------------------------------------------------------------------|----|-----------|----------------------------------|--------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| Goslarite           | $\text{Zn}(\text{SO}_4)(\text{H}_2\text{O})_6 \cdot \text{H}_2\text{O}$                                           | G  | 1845      | Germany                          | Handbuch der bestimmenden Mineralogie. Braumüller and Seidel, Wien (1845), 490 | <i>Mineralogical Magazine</i> <b>69</b> (2005), 259                                         |
| Gottardiite         | $\text{Na}_3\text{Mg}_3\text{Ca}_5\text{Al}_{19}\text{Si}_{117}\text{O}_{272} \cdot 93\text{H}_2\text{O}$         | A  | 1994-054  | Antarctica                       | <i>European Journal of Mineralogy</i> <b>8</b> (1996), 687                     | <i>European Journal of Mineralogy</i> <b>8</b> (1996), 69                                   |
| Gottlobite          | $\text{CaMg}(\text{VO}_4)(\text{OH})$                                                                             | A  | 1998-066  | Germany                          | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (2000), 444                  |                                                                                             |
| Götzenite           | $\text{Ca}_4\text{NaCa}_2\text{Ti}(\text{Si}_2\text{O}_7)_2(\text{OF})\text{F}_2$                                 | Rd | 2016 s.p. | Democratic Republic of the Congo | <i>Mineralogical Magazine</i> <b>31</b> (1957), 503                            | <i>European Journal of Mineralogy</i> <b>38</b> (2026), 75                                  |
| Goudeyite           | $\text{Cu}_6\text{Al}(\text{AsO}_4)_3(\text{OH})_6(\text{H}_2\text{O})_3$                                         | A  | 1978-015  | USA                              | <i>American Mineralogist</i> <b>63</b> (1978), 704                             | <i>Schweizerische Mineralogische und Petrographische Mitteilungen</i> <b>61</b> (1981), 173 |
| Gowerite            | $\text{Ca}(\text{H}_2\text{O})[\text{B}_5\text{O}_8(\text{OH})][\text{B}(\text{OH})_3] \cdot 2\text{H}_2\text{O}$ | A  | 1962 s.p. | USA                              | <i>American Mineralogist</i> <b>44</b> (1959), 911                             | <i>American Mineralogist</i> <b>110</b> (2025), 306                                         |
| Goyazite            | $\text{SrAl}_3(\text{PO}_4)(\text{PO}_3\text{OH})(\text{OH})_6$                                                   | Rd | 1999 s.p. | Brazil                           | <i>Bulletin de la Société Minéralogique de France</i> <b>7</b> (1884), 204     | <i>Mineralogical Journal</i> <b>13</b> (1987), 390                                          |
| Graemite            | $\text{Cu}^{2+}(\text{Te}^{4+}\text{O}_3) \cdot \text{H}_2\text{O}$                                               | A  | 1974-022  | USA                              | <i>Mineralogical Record</i> <b>6</b> (1975), 32                                |                                                                                             |
| Graeserite          | $\text{Fe}^{3+}_4\text{Ti}_3\text{As}^{3+}\text{O}_{13}(\text{OH})$                                               | A  | 1996-010  | Switzerland                      | <i>Canadian Mineralogist</i> <b>36</b> (1998), 1083                            | <i>Mineralogical Magazine</i> <b>84</b> (2020), 766                                         |
| Graftonite          | $\text{Fe}^{2+}\text{Fe}^{2+}_2(\text{PO}_4)_2$                                                                   | Rd | 1900      | USA                              | <i>American Journal of Science</i> <b>159</b> (1900), 20                       | <i>American Mineralogist</i> <b>53</b> (1968), 742                                          |
| Graftonite-(Ca)     | $\text{CaFe}^{2+}_2(\text{PO}_4)_2$                                                                               | A  | 2017-048  | Poland                           | <i>Mineralogical Magazine</i> <b>82</b> (2018), 1307                           |                                                                                             |
| Graftonite-(Mn)     | $\text{MnFe}^{2+}_2(\text{PO}_4)_2$                                                                               | A  | 2017-050  | Poland                           | <i>Mineralogical Magazine</i> <b>82</b> (2018), 1307                           |                                                                                             |
| Grahampearsonite    | $\text{Ca}_2\text{P}_2\text{O}_7$                                                                                 | A  | 2025-017  | Brazil                           | <i>American Mineralogist</i> <b>111</b> (2026), 903                            |                                                                                             |
| Gramaccioliite-(Y)  | $(\text{Pb}, \text{Sr})(\text{Y}, \text{Mn})\text{Fe}^{3+}_2(\text{Ti}, \text{Fe}^{3+})_{18}\text{O}_{38}$        | A  | 2001-034  | Italy                            | <i>European Journal of Mineralogy</i> <b>16</b> (2004), 171                    | <i>European Journal of Mineralogy</i> <b>22</b> (2010), 443                                 |
| Grammatikopoulosite | NiVP                                                                                                              | A  | 2019-090  | Greece                           | <i>Minerals</i> <b>10</b> (2020), 131                                          |                                                                                             |
| Grandaite           | $\text{Sr}_2\text{Al}(\text{AsO}_4)_2(\text{OH})$                                                                 | A  | 2013-059  | Italy                            | <i>Mineralogical Magazine</i> <b>78</b> (2014), 757                            |                                                                                             |
| Grandidierite       | $\text{MgAl}_3\text{O}_2(\text{BO}_3)(\text{SiO}_4)$                                                              | G  | 1902      | Madagascar                       | <i>Bulletin de la Société Française de Minéralogie</i> <b>25</b> (1902), 85    | <i>American Mineralogist</i> <b>92</b> (2007), 863                                          |
| Grandreefite        | $\text{Pb}_2(\text{SO}_4)\text{F}_2$                                                                              | A  | 1988-016  | USA                              | <i>American Mineralogist</i> <b>74</b> (1989), 927                             | <i>American Mineralogist</i> <b>76</b> (1991), 278                                          |
| Grandviewite        | $\text{Cu}_3\text{Al}_2(\text{SO}_4)(\text{OH})_{10}(\text{H}_2\text{O})$                                         | Rd | 2022 s.p. | USA                              | <i>Australian Journal of Mineralogy</i> <b>14</b> (2008), 51                   | <i>Mineralogical Magazine</i> <b>86</b> (2022), 730                                         |
| Grantsite           | $(\text{Na}, \text{Ca})_{2+x}(\text{V}^{5+}, \text{V}^{4+})_6\text{O}_{16} \cdot 4\text{H}_2\text{O}$             | A  | 1967 s.p. | USA                              | <i>American Mineralogist</i> <b>49</b> (1964), 1511                            |                                                                                             |
| Graphite            | C                                                                                                                 | G  | 1789      | unknown                          | <i>Bergmannisches Journal</i> <b>1</b> (1789), 369                             | <i>Australian Journal of Chemistry</i> <b>42</b> (1989), 479                                |
| Grațianite          | $\text{MnBi}_2\text{S}_4$                                                                                         | A  | 2013-076  | Romania                          | <i>American Mineralogist</i> <b>99</b> (2014), 1163                            |                                                                                             |
| Gratonite           | $\text{Pb}_9\text{As}_4\text{S}_{15}$                                                                             | G  | 1939      | Peru                             | <i>American Mineralogist</i> <b>24</b> (1939), 136                             | <i>Zeitschrift für Kristallographie</i> <b>128</b> (1969), 321                              |
| Grattarolaite       | $\text{Fe}^{3+}_3\text{O}_3(\text{PO}_4)$                                                                         | A  | 1995-037  | Italy                            | <i>European Journal of Mineralogy</i> <b>9</b> (1997), 1101                    | <i>Journal of Solid State Chemistry</i> <b>47</b> (1983), 245                               |
| Graulichite-(Ce)    | $\text{CeFe}^{3+}_3(\text{AsO}_4)_2(\text{OH})_6$                                                                 | A  | 2002-001  | Belgium                          | <i>European Journal of Mineralogy</i> <b>15</b> (2003), 733                    |                                                                                             |
| Graulichite-(La)    | $\text{LaFe}^{3+}_3(\text{AsO}_4)_2(\text{OH})_6$                                                                 | A  | 2020-093  | Morocco                          | <i>European Journal of Mineralogy</i> <b>34</b> (2022), 365                    |                                                                                             |
| Gravegliaite        | $\text{Mn}^{2+}(\text{S}^{4+}\text{O}_3)(\text{H}_2\text{O})_3$                                                   | A  | 1990-020  | Italy                            | <i>Zeitschrift für Kristallographie</i> <b>197</b> (1991), 97                  | <i>Acta Crystallographica</i> <b>C62</b> (2006), i79                                        |
| Grayite             | $(\text{Th}, \text{Pb}, \text{Ca})(\text{PO}_4) \cdot \text{H}_2\text{O}$                                         | G  | 1957      | Zimbabwe                         | <i>Geological Survey of Great Britain</i> (1957), 67                           |                                                                                             |
| Grechishchevite     | $\text{Hg}_3\text{S}_2\text{BrCl}_{0.5}\text{I}_{0.5}$                                                            | A  | 1988-027  | Russia                           | <i>Geologiya i Geofizika</i> <b>30</b> (1989), 61                              | <i>Canadian Mineralogist</i> <b>41</b> (2003), 1445                                         |

|                 |                                                                                                                      |    |           |                              |                                                                                                                                        |                                                                                     |
|-----------------|----------------------------------------------------------------------------------------------------------------------|----|-----------|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Greenalite      | $(\text{Fe}^{2+}, \text{Fe}^{3+})_{2-3}\text{Si}_2\text{O}_5(\text{OH})_4$                                           | G  | 1903      | USA                          | <i>U.S. Geological Survey Monograph</i> <b>43</b> (1903)                                                                               | <i>Canadian Mineralogist</i> <b>20</b> (1982), 1                                    |
| Greenlizardite  | $(\text{NH}_4)\text{Na}(\text{UO}_2)_2(\text{SO}_4)_2(\text{OH})_2(\text{H}_2\text{O})_3 \cdot \text{H}_2\text{O}$   | A  | 2017-001  | USA                          | <i>Mineralogical Magazine</i> <b>82</b> (2018), 401                                                                                    |                                                                                     |
| Greenockite     | CdS                                                                                                                  | G  | 1840      | United Kingdom               | <i>The Edinburgh New Philosophical Journal</i> <b>28</b> (1840), 390                                                                   | <i>Solid State Sciences</i> <b>7</b> (2005), 73                                     |
| Greenwoodite    | $\text{Ba}_{2-x}(\text{V}^{3+}\text{OH})_x\text{V}^{3+}_9(\text{Fe}^{3+}, \text{Fe}^{2+})_2\text{Si}_2\text{O}_{22}$ | A  | 2010-007  | Canada                       | <i>Canadian Mineralogist</i> <b>50</b> (2012), 1233                                                                                    |                                                                                     |
| Gregoryite      | $\text{Na}_2(\text{CO}_3)$                                                                                           | A  | 1981-045  | Tanzania                     | <i>Lithos</i> <b>13</b> (1980), 213                                                                                                    | <i>Zapiski Rossiyskogo Mineralogicheskogo Obshchestva</i> <b>137(4)</b> (2008), 101 |
| Greifensteinite | $\text{Ca}_2\text{Fe}^{2+}_5\text{Be}_4(\text{PO}_4)_6(\text{OH})_4(\text{H}_2\text{O})_6$                           | A  | 2001-044  | Germany                      | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>131(4)</b> (2002), 47                                                  | <i>Doklady Chemistry</i> <b>383</b> (2002), 78                                      |
| Greigite        | $\text{Fe}^{2+}\text{Fe}^{3+}_2\text{S}_4$                                                                           | A  | 1963-007  | USA                          | <i>American Mineralogist</i> <b>49</b> (1964), 543                                                                                     | <i>Mineralogical Magazine</i> <b>81</b> (2017), 857                                 |
| Grenmarite      | $\text{Na}_2\text{Zr}_2\text{Na}_2\text{MnZr}(\text{Si}_2\text{O}_7)_2\text{O}_2\text{F}_2$                          | Rd | 2003-024  | Norway                       | <i>European Journal of Mineralogy</i> <b>16</b> (2004), 971                                                                            |                                                                                     |
| Grguricite      | $\text{CaCr}_2(\text{CO}_3)_2(\text{OH})_4(\text{H}_2\text{O})_3 \cdot \text{H}_2\text{O}$                           | A  | 2019-123  | Morocco                      | <i>Mineralogical Magazine</i> <b>84</b> (2020), 778                                                                                    |                                                                                     |
| Griceite        | LiF                                                                                                                  | A  | 1986-043  | Canada                       | <i>Canadian Mineralogist</i> <b>27</b> (1989), 125                                                                                     |                                                                                     |
| Griffinite      | $\text{Al}_2\text{TiO}_5$                                                                                            | A  | 2021-110  | Israel                       | <i>Crystals</i> <b>13</b> (2023), 1427                                                                                                 |                                                                                     |
| Grigorievite    | $\text{Cu}_3\text{Fe}^{3+}_2\text{Al}_2(\text{VO}_4)_6$                                                              | A  | 2012-047  | Russia                       | <i>European Journal of Mineralogy</i> <b>26</b> (2014), 667                                                                            |                                                                                     |
| Grimaldiite     | CrO(OH)                                                                                                              | A  | 1967-036  | Guyana                       | <i>U.S. Geological Survey Professional Paper</i> <b>887</b> (1976), 1                                                                  | <i>Mineralogical Magazine</i> <b>48</b> (1984), 560                                 |
| Grimmite        | $\text{NiCo}_2\text{S}_4$                                                                                            | A  | 2020-060  | Czech Republic               | <i>European Journal of Mineralogy</i> <b>33</b> (2021), 175                                                                            |                                                                                     |
| Grimselite      | $\text{K}_3\text{Na}(\text{UO}_2)(\text{CO}_3)_3(\text{H}_2\text{O})$                                                | A  | 1971-040  | Switzerland                  | <i>Schweizerische Mineralogische und Petrographische Mitteilungen</i> <b>52</b> (1972), 93                                             | <i>Inorganic Chemistry Frontiers</i> <b>7</b> (2020), 4197                          |
| Griphite        | $\text{Ca}(\text{Mn}^{2+}, \text{Na}, \text{Li})_6\text{Fe}^{2+}\text{Al}_2(\text{PO}_4)_6(\text{F}, \text{OH})_2$   | G  | 1891      | USA                          | <i>American Journal of Science</i> <b>141</b> (1891), 415                                                                              | <i>Bulletin de Minéralogie</i> <b>101</b> (1978), 543                               |
| Grischunite     | $\text{NaCa}_2\text{Mn}^{2+}_5\text{Fe}^{3+}(\text{AsO}_4)_6(\text{H}_2\text{O})_2$                                  | A  | 1981-028  | Switzerland                  | <i>Schweizerische Mineralogische und Petrographische Mitteilungen</i> <b>64</b> (1984), 1                                              | <i>American Mineralogist</i> <b>72</b> (1987), 1225                                 |
| Gritsenkoite    | $\text{CoMg}_2(\text{AsO}_4)_2(\text{H}_2\text{O})_8$                                                                | A  | 2025-052  | Russia                       | CNMNC Newsletter 88 - <i>Mineralogical Magazine</i> <b>90</b> (2026), 192; <i>European Journal of Mineralogy</i> <b>37</b> (2025), 921 |                                                                                     |
| Groatite        | $\square\text{NaCaMn}_2(\text{PO}_4)(\text{HPO}_4)_2$                                                                | A  | 2008-054  | Canada                       | <i>Canadian Mineralogist</i> <b>47</b> (2009), 1225                                                                                    |                                                                                     |
| Grokhovskyite   | $\text{CuCrS}_2$                                                                                                     | A  | 2019-065  | Russia (meteorite)           | <i>Minerals</i> <b>15</b> (2025), 1295                                                                                                 |                                                                                     |
| Grootfonteinite | $\text{Pb}_3\text{O}(\text{CO}_3)_2$                                                                                 | A  | 2015-051  | Namibia                      | <i>European Journal of Mineralogy</i> <b>30</b> (2018), 383                                                                            |                                                                                     |
| Grossite        | $\text{CaAl}_4\text{O}_7$                                                                                            | A  | 1993-052  | Algeria (meteorite) / Israel | <i>European Journal of Mineralogy</i> <b>6</b> (1994), 591                                                                             | <i>Geochimica et Cosmochimica Acta</i> <b>68</b> (2004), 4485                       |
| Grossmanite     | $\text{Ca}(\text{Ti}^{3+}, \text{Mg}, \text{Ti}^{4+})\text{AlSiO}_6$                                                 | A  | 2008-042a | Mexico (meteorite)           | <i>American Mineralogist</i> <b>94</b> (2009), 1491                                                                                    |                                                                                     |
| Grossular       | $\text{Ca}_3\text{Al}_2(\text{SiO}_4)_3$                                                                             | A  | 1962 s.p. | Russia                       | Handbuch der Mineralogie, Vol. 1. Craz & Gerlach, Freiberg (1811), 479                                                                 | <i>IUCrJ</i> <b>7</b> (2020), 383                                                   |
| Groutite        | $\text{Mn}^{3+}\text{O}(\text{OH})$                                                                                  | G  | 1945      | USA                          | <i>American Mineralogist</i> <b>32</b> (1947), 654                                                                                     | <i>Journal of Solid State Chemistry</i> <b>133</b> (1997), 486                      |

|                 |                                                                                                                |    |           |                                  |                                                                                                                                        |                                                                           |
|-----------------|----------------------------------------------------------------------------------------------------------------|----|-----------|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|
| Grumantite      | $\text{NaSi}_2\text{O}_4(\text{OH})(\text{H}_2\text{O})$                                                       | A  | 1985-029  | Russia                           | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>116</b> (1987), 244                                                      | <i>Zeitschrift für Kristallographie</i> <b>185</b> (1988), 612            |
| Grumiplucite    | $\text{HgBi}_2\text{S}_4$                                                                                      | A  | 1997-021  | Italy                            | <i>Canadian Mineralogist</i> <b>36</b> (1998), 1321                                                                                    | <i>Rendiconti Lincei</i> <b>24</b> (2013), 47                             |
| Grundmannite    | $\text{CuBiSe}_2$                                                                                              | A  | 2015-038  | Bolivia                          | <i>European Journal of Mineralogy</i> <b>28</b> (2016), 467                                                                            |                                                                           |
| Grunerite       | $\square\text{Fe}^{2+}_2\text{Fe}^{2+}_5\text{Si}_8\text{O}_{22}(\text{OH})_2$                                 | Rd | 2012 s.p. | France                           | Das Mohs'sche Mineralsystem. Gerold, Wien (1853), 62                                                                                   | <i>Physics and Chemistry of Minerals</i> <b>46</b> (2019), 215            |
| Gruzdevite      | $\text{Cu}_6\text{Hg}_3\text{Sb}_4\text{S}_{12}$                                                               | A  | 1980-053  | Kyrgyzstan                       | <i>Doklady Akademii Nauk SSSR</i> <b>261</b> (1981), 971                                                                               |                                                                           |
| Guanacoite      | $\text{MgCu}_2\text{Mg}_2(\text{AsO}_4)_2(\text{OH})_4(\text{H}_2\text{O})_4$                                  | A  | 2003-021  | Chile                            | <i>European Journal of Mineralogy</i> <b>18</b> (2006), 813                                                                            | <i>American Mineralogist</i> <b>93</b> (2008), 501                        |
| Guanajuatite    | $\text{Bi}_2\text{Se}_3$                                                                                       | G  | 1873      | Mexico                           | <i>La República</i> <b>6(40)</b> (1873), 3                                                                                             | <i>Kristallografiya</i> <b>18</b> (1973), 173                             |
| Guangyuanite    | $\text{Pb}_3\text{Cl}_3(\text{Se}^{4+}\text{O}_3)(\text{OH})$                                                  | A  | 2022-124  | Bolivia                          | <i>Mineralogical Magazine</i> <b>88</b> (2024), 97                                                                                     |                                                                           |
| Guanine         | $\text{C}_5\text{H}_3(\text{NH}_2)\text{N}_4\text{O}$                                                          | A  | 1973-056  | Peru                             | <i>Mineralogical Magazine</i> <b>39</b> (1974), 889                                                                                    | <i>Acta Crystallographica</i> <b>B27</b> (1971), 2358                     |
| Guarinoite      | $\text{Zn}_6(\text{SO}_4)(\text{OH})_{10}\cdot 5\text{H}_2\text{O}$                                            | A  | 1991-005  | France                           | <i>Archives des Sciences de Genève</i> <b>46</b> (1993), 37                                                                            | <i>Journal of Solid State Chemistry</i> <b>182</b> (2009), 2350           |
| Guastoniite-(Y) | $\text{Pb}_4(\text{YCa})[\text{Si}_8\text{B}_4\text{O}_{28}]\text{F}$                                          | A  | 2024-082  | Tajikistan                       | CNMNC Newsletter 84 - <i>Mineralogical Magazine</i> <b>89</b> (2025), 298; <i>European Journal of Mineralogy</i> <b>37</b> (2025), 249 |                                                                           |
| Gudmundite      | $\text{FeSbS}$                                                                                                 | G  | 1928      | Sweden                           | <i>Zeitschrift für Kristallographie</i> <b>68</b> (1928), 87                                                                           | <i>American Mineralogist</i> <b>24</b> (1939), 183                        |
| Guérinite       | $\text{Ca}_6(\text{HAsO}_4)_3(\text{AsO}_4)_2(\text{H}_2\text{O})_9\cdot 1.5\text{H}_2\text{O}$                | Rn | 2007 s.p. | Germany                          | <i>Materialy Vsesoyuznogo Nauchno-Issledovatel'skogo Geologicheskogo Instituta</i> <b>45</b> (1961), 113                               | <i>Mineralogy and Petrology</i> <b>118</b> (2024), 547                    |
| Guettardite     | $\text{PbSbAsS}_4$                                                                                             | A  | 1966-018  | Canada                           | <i>Canadian Mineralogist</i> <b>9</b> (1967), 191                                                                                      | <i>Canadian Mineralogist</i> <b>50</b> (2012), 253                        |
| Gugiaite        | $\text{Ca}_2\text{BeSi}_2\text{O}_7$                                                                           | A  | 1983-072  | China                            | <i>Scientia Sinica</i> <b>11</b> (1962), 977                                                                                           | <i>Neues Jahrbuch für Mineralogie Abhandlungen</i> <b>143</b> (1982), 210 |
| Guidottiite     | $\text{Mn}_2\text{Fe}^{3+}(\text{SiFe}^{3+})\text{O}_5(\text{OH})_4$                                           | A  | 2009-061  | South Africa                     | <i>Clays and Clay Minerals</i> <b>58</b> (2010), 364                                                                                   |                                                                           |
| Guildite        | $\text{CuFe}^{3+}(\text{SO}_4)_2(\text{OH})(\text{H}_2\text{O})_4$                                             | G  | 1928      | USA                              | <i>American Mineralogist</i> <b>13</b> (1928), 203                                                                                     | <i>American Mineralogist</i> <b>63</b> (1978), 478                        |
| Guilleminite    | $\text{Ba}(\text{UO}_2)_3(\text{Se}^{4+}\text{O}_3)_2\text{O}_2(\text{H}_2\text{O})_3\cdot \text{H}_2\text{O}$ | A  | 1964-031  | Democratic Republic of the Congo | <i>Bulletin de la Société Française de Minéralogie et de Cristallographie</i> <b>88</b> (1965), 132                                    | <i>Crystals</i> <b>9</b> (2019), 639                                      |
| Guimarãesite    | $\text{Ca}_2\text{Zn}_5\text{Be}_4(\text{PO}_4)_6(\text{OH})_4(\text{H}_2\text{O})_6$                          | A  | 2006-028  | Brazil                           | <i>New Data on Minerals</i> <b>42</b> (2007), 11                                                                                       |                                                                           |
| Guite           | $\text{Co}^{2+}\text{Co}^{3+}_2\text{O}_4$                                                                     | A  | 2017-080  | Democratic Republic of the Congo | <i>Mineralogical Magazine</i> <b>86</b> (2022), 346                                                                                    |                                                                           |
| Guixiangite     | $\text{NiBiS}$                                                                                                 | A  | 2025-019  | China                            | CNMNC Newsletter 86 - <i>Mineralogical Magazine</i> <b>89</b> (2025), 544; <i>European Journal of Mineralogy</i> <b>37</b> (2025), 549 |                                                                           |
| Gungerite       | $\text{TiAs}_5\text{Sb}_4\text{S}_{13}$                                                                        | A  | 2020-009  | Russia                           | <i>American Mineralogist</i> <b>107</b> (2022), 1164                                                                                   |                                                                           |
| Gunmaite        | $(\text{Na}_2\text{Sr})\text{Sr}_2\text{Al}_{10}(\text{PO}_4)_4\text{F}_{14}(\text{OH})_{12}$                  | A  | 2022-080  | Japan                            | <i>Journal of Mineralogical and Petrological Sciences</i> <b>118</b> (2023), 230605                                                    |                                                                           |
| Gunningite      | $\text{Zn}(\text{SO}_4)(\text{H}_2\text{O})$                                                                   | A  | 1962 s.p. | Canada                           | <i>Canadian Mineralogist</i> <b>7</b> (1962), 209                                                                                      | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1991), 296             |

|                |                                                                                                                                              |    |           |                                  |                                                                                         |                                                                                   |
|----------------|----------------------------------------------------------------------------------------------------------------------------------------------|----|-----------|----------------------------------|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| Günterblässite | $(\text{K,Ca,Ba,Na},\square)_3\text{Fe}[(\text{Si,Al})_{13}\text{O}_{25}(\text{OH},\text{O})_4](\text{H}_2\text{O})_7$                       | A  | 2011-032  | Germany                          | <i>Zapiski Rossiyskogo Mineralogicheskogo Obshchestva</i> <b>141(1)</b> (2012), 71      | <i>Doklady Chemistry</i> <b>442</b> (2012), 57                                    |
| Gunterite      | $\text{Na}_4\text{Ca}(\text{V}_{10}\text{O}_{28})(\text{H}_2\text{O})_{20}$                                                                  | Rd | 2021 s.p. | USA                              | <i>Canadian Mineralogist</i> <b>49</b> (2011), 1243                                     | <i>Canadian Mineralogist</i> <b>60</b> (2022), 361                                |
| Gupeite        | $\text{Fe}_3\text{Si}$                                                                                                                       | A  | 1983-087  | China (meteorite)                | <i>Acta Petrologica Mineralogica et Analytica</i> <b>3</b> (1984), 231                  | <i>Journal of Solid State Chemistry</i> <b>70</b> (1987), 178                     |
| Gurimite       | $\text{Ba}_3(\text{VO}_4)_2$                                                                                                                 | A  | 2013-032  | Israel                           | <i>Mineralogical Magazine</i> <b>81</b> (2017), 1009                                    |                                                                                   |
| Gurzhiite      | $\text{Al}(\text{UO}_2)(\text{SO}_4)_2\text{F}(\text{H}_2\text{O})_6 \cdot 4\text{H}_2\text{O}$                                              | A  | 2021-086  | Russia                           | <i>Mineralogical Magazine</i> <b>86</b> (2022), 412                                     |                                                                                   |
| Gustavite      | $\text{AgPbBi}_3\text{S}_6$                                                                                                                  | A  | 1967-048  | Denmark (Greenland)              | <i>Canadian Mineralogist</i> <b>10</b> (1970), 173                                      | <i>European Journal of Mineralogy</i> <b>23</b> (2011), 537                       |
| Gutkovaite-Mn  | $\text{CaK}_2\text{Mn}(\text{Ti,Nb})_4(\text{Si}_4\text{O}_{12})_2(\text{O},\text{OH})_4 \cdot 5\text{H}_2\text{O}$                          | A  | 2001-038  | Russia                           | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>131(2)</b> (2002), 51   | <i>Crystallography Reports</i> <b>46</b> (2001), 365                              |
| Guyanaite      | $\text{CrO}(\text{OH})$                                                                                                                      | A  | 1967-034  | Guyana                           | <i>U.S. Geological Survey Professional Paper</i> <b>887</b> (1976), 1                   | <i>European Journal of Mineralogy</i> <b>24</b> (2012), 839                       |
| Gwihabaite     | $(\text{NH}_4)(\text{NO}_3)$                                                                                                                 | A  | 1994-011  | Botswana                         | <i>Bulletin of the South African Speleological Association</i> <b>36</b> (1996), 19     |                                                                                   |
| Gypsum         | $\text{Ca}(\text{SO}_4)(\text{H}_2\text{O})_2$                                                                                               | G  | ?         | unknown                          | original paper?                                                                         | <i>American Mineralogist</i> <b>93</b> (2008), 1530                               |
| Gyrolite       | $\text{NaCa}_{16}(\text{Si}_{23}\text{Al})\text{O}_{60}(\text{OH})_8(\text{H}_2\text{O})_{14}$                                               | G  | 1851      | United Kingdom                   | <i>Philosophical Magazine and Journal of Science</i> <b>1</b> (1851), 111               | <i>Mineralogical Magazine</i> <b>52</b> (1988), 377                               |
| Gysinite-(Ce)  | $\text{PbCe}(\text{CO}_3)_2(\text{OH})(\text{H}_2\text{O})$                                                                                  | A  | 2023-035  | Germany                          | <i>Canadian Journal of Mineralogy and Petrology</i> <b>62</b> (2024), 863               |                                                                                   |
| Gysinite-(La)  | $\text{PbLa}(\text{CO}_3)_2(\text{OH})(\text{H}_2\text{O})$                                                                                  | A  | 2022-008  | China                            | <i>Mineralogical Magazine</i> <b>87</b> (2023), 143                                     |                                                                                   |
| Gysinite-(Nd)  | $\text{PbNd}(\text{CO}_3)_2(\text{OH})(\text{H}_2\text{O})$                                                                                  | Rn | 1987 s.p. | Democratic Republic of the Congo | <i>American Mineralogist</i> <b>70</b> (1985), 1314                                     | <i>Zeitschrift für Kristallographie</i> <b>171</b> (1985), 155                    |
| Haapalaite     | $2[(\text{Fe,Ni})\text{Si}] \cdot 1.61[(\text{Mg,Fe})(\text{OH})_2]$                                                                         | A  | 1972-021  | Finland                          | <i>Bulletin of the Geological Society of Finland</i> <b>45</b> (1973), 103              |                                                                                   |
| Hafnon         | $\text{Hf}(\text{SiO}_4)$                                                                                                                    | A  | 1974-018  | Mozambique                       | <i>Contributions to Mineralogy and Petrology</i> <b>48</b> (1974), 73                   | <i>American Mineralogist</i> <b>67</b> (1982), 804                                |
| Hagendorfite   | $\text{Na}_2\text{MnFe}^{2+}\text{Fe}^{3+}(\text{PO}_4)_3$                                                                                   | G  | 1954      | Germany                          | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1954), 252                           | <i>European Journal of Mineralogy</i> <b>17</b> (2005), 915                       |
| Haggertyite    | $\text{Ba}[\text{Ti}_5\text{Fe}^{3+}_2\text{Fe}^{2+}_4\text{Mg}]\text{O}_{19}$                                                               | A  | 1996-054  | USA                              | <i>American Mineralogist</i> <b>83</b> (1998), 1323                                     |                                                                                   |
| Häggite        | $\text{V}^{3+}\text{V}^{4+}\text{O}_2(\text{OH})_3$                                                                                          | G  | 1958      | USA                              | <i>American Mineralogist</i> <b>45</b> (1960), 1144                                     | <i>Journal of Mineralogy and Geochemistry</i> <b>192</b> (2015), 33               |
| Hagstromite    | $\text{Pb}_8\text{Cu}^{2+}(\text{Te}^{6+}\text{O}_6)_2(\text{CO}_3)\text{Cl}_4$                                                              | A  | 2019-093  | USA                              | <i>Mineralogical Magazine</i> <b>84</b> (2020), 517                                     |                                                                                   |
| Haidingerite   | $\text{Ca}(\text{AsO}_3\text{OH})(\text{H}_2\text{O})$                                                                                       | G  | 1827      | Czech Republic                   | <i>Edinburgh Journal of Science</i> <b>6</b> (1827), 317                                | <i>Acta Crystallographica</i> <b>B28</b> (1972), 209                              |
| Haigerachite   | $\text{KFe}^{3+}_3(\text{H}_2\text{PO}_4)_6(\text{HPO}_4)_2 \cdot 4\text{H}_2\text{O}$                                                       | A  | 1997-049  | Germany                          | <i>Aufschluss</i> <b>50</b> (1999), 1                                                   | <i>Zeitschrift für Anorganische und Allgemeine Chemie</i> <b>623</b> (1997), 1708 |
| Haineaultite   | $(\text{Na,Ca})_5\text{Ca}(\text{Ti,Nb})_5\text{Si}_{12}\text{O}_{34}(\text{OH},\text{F})_8(\text{H}_2\text{O})_6 \cdot 4\text{H}_2\text{O}$ | A  | 1997-015  | Canada                           | <i>Canadian Mineralogist</i> <b>42</b> (2004), 769                                      |                                                                                   |
| Hainite-(Y)    | $\text{Ca}_2(\text{CaY})\text{Na}(\text{NaCa})\text{Ti}(\text{Si}_2\text{O}_7)_2(\text{OF})\text{F}_2$                                       | Rd | 2016 s.p. | Czech Republic                   | <i>Tschermaks Mineralogische und Petrographische Mitteilungen</i> <b>13</b> (1893), 465 | <i>Mineralogy and Petrology</i> <b>109</b> (2015), 443                            |
| Haitaite-(La)  | $\text{LaU}^{4+}\text{Fe}^{3+}_2(\text{Ti}_{13}\text{Fe}^{2+}_4\text{Fe}^{3+})\text{O}_{38}$                                                 | A  | 2019-033a | China                            | <i>Acta Geologica Sinica</i> <b>96</b> (2022), 2007                                     |                                                                                   |
| Haiweeite      | $\text{Ca}(\text{UO}_2)_2(\text{Si}_5\text{O}_{12})(\text{OH})_2(\text{H}_2\text{O})_6 \cdot 2\text{H}_2\text{O}$                            | A  | 1962 s.p. | USA                              | <i>American Mineralogist</i> <b>44</b> (1959), 839                                      | <i>American Mineralogist</i> <b>98</b> (2013), 718                                |
| Hakite-(Cd)    | $\text{Cu}_6(\text{Cu}_4\text{Cd}_2)\text{Sb}_4\text{Se}_{13}$                                                                               | A  | 2022-090  | Czech Republic                   | <i>Mineralogical Magazine</i> <b>88</b> (2024), 602                                     |                                                                                   |
| Hakite-(Fe)    | $\text{Cu}_6(\text{Cu}_4\text{Fe}_2)\text{Sb}_4\text{Se}_{13}$                                                                               | A  | 2022-082  | Czech Republic                   | <i>Mineralogical Magazine</i> <b>88</b> (2024), 602                                     |                                                                                   |

|                  |                                                                                                                                     |    |           |                |                                                                                                                   |                                                                                        |
|------------------|-------------------------------------------------------------------------------------------------------------------------------------|----|-----------|----------------|-------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
| Hakite-(Hg)      | $\text{Cu}_6(\text{Cu}_4\text{Hg}_2)\text{Sb}_4\text{Se}_{13}$                                                                      | Rd | 2019 s.p. | Czech Republic | <i>Bulletin de la Société Française de Minéralogie et de Cristallographie</i> <b>94</b> (1971), 45                | <i>Mineralogical Magazine</i> <b>80</b> (2016), 1115                                   |
| Hakite-(Zn)      | $\text{Cu}_6(\text{Cu}_4\text{Zn}_2)\text{Sb}_4\text{Se}_{13}$                                                                      | A  | 2022-083  | Czech Republic | <i>Mineralogical Magazine</i> <b>88</b> (2024), 602                                                               |                                                                                        |
| Halamishite      | $\text{Ni}_5\text{P}_4$                                                                                                             | A  | 2013-105  | Israel         | <i>Physics and Chemistry of Minerals</i> <b>47</b> (2020), 3                                                      |                                                                                        |
| Håleniusite-(Ce) | CeOF                                                                                                                                | A  | 2021-042  | Portugal       | <i>Canadian Mineralogist</i> <b>60</b> (2022), 713                                                                |                                                                                        |
| Håleniusite-(La) | LaOF                                                                                                                                | A  | 2003-028  | Sweden         | <i>Canadian Mineralogist</i> <b>42</b> (2004), 1097                                                               |                                                                                        |
| Halilsarpite     | $[\text{Mg}_{0.5}(\text{H}_2\text{O})_6][\text{CaAs}^{3+}_2(\text{Fe}^{3+}_{2.33}\text{Mo}^{6+}_{0.67})(\text{AsO}_4)_2\text{O}_7]$ | A  | 2019-023  | Morocco        | <i>European Journal of Mineralogy</i> <b>32</b> (2020), 89                                                        |                                                                                        |
| Halite           | NaCl                                                                                                                                | G  | 1847      | unknown        | Generum et Specierum Mineralium, Secundum Ordines Naturales Digestorum Synopsis. Anton, Halle (1847), 288         | <i>Canadian Mineralogist</i> <b>28</b> (1990), 299                                     |
| Hallimondite     | $\text{Pb}_2(\text{UO}_2)(\text{AsO}_4)_2(\text{H}_2\text{O})_n$ $[0 \leq n \leq 0.5]$                                              | A  | 1965-008  | Germany        | <i>American Mineralogist</i> <b>50</b> (1965), 1143                                                               | <i>American Mineralogist</i> <b>90</b> (2005), 240                                     |
| Halloysite       | $\text{Al}_2\text{Si}_2\text{O}_5(\text{OH})_4 \cdot n \text{H}_2\text{O}$                                                          | Rd | 2026 s.p. | Belgium        | <i>Annales de Chimie et de Physique</i> <b>32</b> (1826), 332                                                     | <i>Clay Minerals</i> <b>53</b> (2018), 691                                             |
| Halotrichite     | $\text{Fe}^{2+}\text{Al}_2(\text{SO}_4)_4(\text{H}_2\text{O})_{17} \cdot 5\text{H}_2\text{O}$                                       | G  | 1839      | unknown        | Grundriss der Mineralogie, mit Einschluss der Geognosie und Petrefactenkunde. Schrag, Nurnberg (1839), 691        | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>153(2)</b> (2024), 117 |
| Halurgite        | $\text{Mg}_4(\text{H}_2\text{O})_4[\text{B}_6\text{O}_{13}(\text{OH})_2]_2 \cdot 3\text{H}_2\text{O}$                               | A  | 1967 s.p. | Kazakhstan     | <i>Doklady Akademii Nauk SSSR</i> <b>143</b> (1962), 693                                                          | <i>Mineralogical Magazine</i> <b>83</b> (2019), 723                                    |
| Hambergite       | $\text{Be}_2(\text{BO}_3)(\text{OH})$                                                                                               | G  | 1890      | Norway         | <i>Zeitschrift für Kristallographie</i> <b>16</b> (1890), 65                                                      | <i>American Mineralogist</i> <b>97</b> (2012), 1891                                    |
| Hammarite        | $\text{Cu}_2\text{Pb}_2\text{Bi}_4\text{S}_9$                                                                                       | G  | 1924      | Sweden         | <i>Arkiv för Kemi, Mineralogi och Geologi</i> <b>9</b> (1924), 1                                                  | <i>Canadian Mineralogist</i> <b>14</b> (1976), 536                                     |
| Hanahanite       | $[\text{Zn}_8(\text{OH})_{14}(\text{SO}_4)] \cdot 3\text{H}_2\text{O}$                                                              | A  | 2022-012  | USA            | <i>Canadian Journal of Mineralogy and Petrology</i> <b>61</b> (2023), 1137                                        |                                                                                        |
| Hanauerite       | AgHgSI                                                                                                                              | A  | 2018-045  | Germany        | <i>Crystals</i> <b>13</b> (2023), 1218                                                                            |                                                                                        |
| Hanawaltite      | $\text{Hg}^{1+}_6\text{Hg}^{2+}\text{O}_3\text{Cl}_2$                                                                               | A  | 1994-036  | USA            | <i>Powder Diffraction</i> <b>11</b> (1996), 45                                                                    | <i>Canadian Mineralogist</i> <b>37</b> (1999), 775                                     |
| Hancockite       | $\text{CaPb}(\text{Al}_2\text{Fe}^{3+})(\text{Si}_2\text{O}_7)(\text{SiO}_4)\text{O}(\text{OH})$                                    | Rn | 2006 s.p. | USA            | <i>American Journal of Science</i> <b>8</b> (1899), 339                                                           | <i>American Mineralogist</i> <b>56</b> (1971), 447                                     |
| Hanjiangite      | $\text{Ba}_2\text{Ca}(\text{V}^{3+}\text{Al})(\text{AlSi}_3\text{O}_{10})(\text{OH})_2\text{F}(\text{CO}_3)_2$                      | A  | 2009-082  | China          | <i>American Mineralogist</i> <b>97</b> (2012), 281                                                                |                                                                                        |
| Hanksite         | $\text{KNa}_{22}(\text{SO}_4)_9(\text{CO}_3)_2\text{Cl}$                                                                            | G  | 1885      | USA            | <i>American Journal of Science</i> <b>130</b> (1885), 133                                                         | <i>Neues Jahrbuch für Mineralogie Abhandlungen</i> <b>195</b> (2018), 115              |
| Hannayite        | $(\text{NH}_4)_2\text{Mg}_3(\text{PO}_3\text{OH})_4(\text{H}_2\text{O})_8$                                                          | G  | 1879      | Australia      | <i>Verhandlungen des naturhistorischen Vereins der Preussischen Rheinlande und Westfalens</i> <b>36</b> (1879), 4 | <i>Acta Crystallographica</i> <b>B32</b> (1976), 2842                                  |
| Hannebachite     | $\text{Ca}(\text{SO}_3)(\text{H}_2\text{O})_{0.5}$                                                                                  | A  | 1983-056  | Germany        | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1985), 241                                                     | <i>Zeitschrift für Anorganische und Allgemeine Chemie</i> <b>401</b> (1973), 1         |
| Hansblockite     | $(\text{Cu},\text{Hg})(\text{Bi},\text{Pb})\text{Se}_2$                                                                             | A  | 2015-103  | Bolivia        | <i>Mineralogical Magazine</i> <b>81</b> (2017), 629                                                               |                                                                                        |
| Hansesmarkite    | $\text{Ca}_2\text{Mn}_2\text{Nb}_6\text{O}_{19}(\text{H}_2\text{O})_{16} \cdot 4\text{H}_2\text{O}$                                 | A  | 2015-067  | Norway         | <i>Mineralogical Magazine</i> <b>81</b> (2017), 543                                                               |                                                                                        |
| Hanswilkeite     | $\text{KFeS}_2$                                                                                                                     | A  | 2022-041  | Israel         | <i>American Mineralogist</i> <b>110</b> (2025), 956                                                               | <i>Minerals</i> <b>13</b> (2023), 874                                                  |
| Hapkeite         | $\text{Fe}_2\text{Si}$                                                                                                              | A  | 2003-014  | Oman           | <i>Lunar and Planetary Science</i> <b>34</b> (2003), #1818                                                        |                                                                                        |
| Haradaite        | $\text{SrV}^{4+}\text{Si}_2\text{O}_7$                                                                                              | A  | 1963-011  | Japan          | <i>Mineralogical Journal</i> <b>5</b> (1967), 98                                                                  | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1995), 281                          |

|               |                                                                                                                                                                                              |    |           |                                      |                                                                                                                                        |                                                                                           |
|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----------|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
| Hardystonite  | $\text{Ca}_2\text{ZnSi}_2\text{O}_7$                                                                                                                                                         | G  | 1899      | USA                                  | <i>Proceedings of the American Academy of Arts and Sciences</i> <b>34</b> (1899), 479                                                  | <i>Physics and Chemistry of Minerals</i> <b>39</b> (2012), 713                            |
| Harkerite     | $\text{Ca}_{48}\text{Mg}_{16}[\text{AlSi}_4\text{O}_{15}(\text{OH})]_4(\text{BO}_3)_{16}(\text{CO}_3)_{16}(\text{H}_2\text{O}, \text{HCl})_2$                                                | Rd | 2021 s.p. | United Kingdom                       | <i>Geological Magazine</i> <b>85</b> (1948), 213                                                                                       | <i>American Mineralogist</i> <b>103</b> (2018), 1749                                      |
| Harmotome     | $\text{Ba}_2(\text{Si}_{12}\text{Al}_4)\text{O}_{32} \cdot 12\text{H}_2\text{O}$                                                                                                             | A  | 1997 s.p. | Germany                              | Traité de Minéralogie, Vol. 3. Chez Louis, Paris (1801), 191                                                                           | <i>European Journal of Mineralogy</i> <b>2</b> (1990), 861                                |
| Harmunite     | $\text{CaFe}_2\text{O}_4$                                                                                                                                                                    | A  | 2012-045  | Palestine                            | <i>American Mineralogist</i> <b>99</b> (2014), 965                                                                                     |                                                                                           |
| Harrisonite   | $\text{CaFe}^{2+}_6(\text{SiO}_4)_2(\text{PO}_4)_2$                                                                                                                                          | A  | 1991-010  | Canada                               | <i>Canadian Mineralogist</i> <b>31</b> (1993), 775                                                                                     | <i>Canadian Mineralogist</i> <b>31</b> (1993), 781                                        |
| Harstigitte   | $\text{Ca}_6\text{Be}_4\text{Mn}^{2+}(\text{SiO}_4)_2(\text{Si}_2\text{O}_7)_2(\text{OH})_2$                                                                                                 | G  | 1886      | Sweden                               | <i>Bihang till Kongl. Svenska Vetenskaps-Akademiens Handlingar</i> <b>12</b> (1886), 59                                                | <i>Zeitschrift für Kristallographie</i> <b>177</b> (1986), 143                            |
| Hartkoppeite  | $\text{Ca}_4\text{Mn}^{2+}\text{Mo}^{6+}_6\text{As}^{5+}_4\text{O}_{32}(\text{OH})_2(\text{H}_2\text{O})_{14} \cdot 5\text{H}_2\text{O}$                                                     | A  | 2025-056  | Germany                              | CNMNC Newsletter 88 - <i>Mineralogical Magazine</i> <b>90</b> (2026), 192; <i>European Journal of Mineralogy</i> <b>37</b> (2025), 921 | <a href="https://doi.org/10.2138/am-2026-10210">https://doi.org/10.2138/am-2026-10210</a> |
| Hasanovite    | $\text{KNa}(\text{MoO}_2)(\text{SO}_4)_2$                                                                                                                                                    | A  | 2020-033  | Tajikistan                           | <i>Zapiski Rossiyskogo Mineralogicheskogo Obshchestva</i> <b>152(1)</b> (2023), 18                                                     |                                                                                           |
| Hashemite     | $\text{Ba}(\text{CrO}_4)$                                                                                                                                                                    | A  | 1978-006  | Jordan                               | <i>American Mineralogist</i> <b>68</b> (1983), 1223                                                                                    | <i>Acta Crystallographica</i> <b>C43</b> (1987), 1467                                     |
| Hastingsite   | $\text{NaCa}_2(\text{Fe}^{2+}_4\text{Fe}^{3+})(\text{Si}_6\text{Al}_2)\text{O}_{22}(\text{OH})_2$                                                                                            | Rd | 2012 s.p. | Canada                               | <i>American Journal of Science</i> <b>151</b> (1896), 210                                                                              | <i>Mineralogical Magazine</i> <b>71</b> (2007), 651                                       |
| Hatchite      | $\text{AgTiPbAs}_2\text{S}_5$                                                                                                                                                                | G  | 1912      | Switzerland                          | <i>Mineralogical Magazine</i> <b>16</b> (1912), 287                                                                                    | <i>Zeitschrift für Kristallographie</i> <b>125</b> (1967), 249                            |
| Hatertite     | $\text{NaNaCa}(\text{Cu}^{2+}\text{Fe}^{3+})(\text{AsO}_4)_3$                                                                                                                                | A  | 2012-048  | Russia                               | <i>European Journal of Mineralogy</i> <b>25</b> (2013), 683                                                                            |                                                                                           |
| Hatrurite     | $\text{Ca}_3\text{SiO}_5$                                                                                                                                                                    | G  | 1977      | Israel                               | <i>Geological Survey of Israel, Bulletin</i> <b>70</b> (1977), 35                                                                      | <i>Powder Diffraction</i> <b>8</b> (1993), 138                                            |
| Hauchecornite | $\text{Ni}_9\text{BiSbS}_8$                                                                                                                                                                  | Rd | 1975-006a | Germany                              | <i>Jahrbuch der Königlich Preussischen Geologischen Landesanstalt und Bergakademie zu Berlin</i> <b>12</b> (1893), 91                  | <i>Mineralogical Magazine</i> <b>43</b> (1980), 873                                       |
| Hauckite      | $\text{Fe}^{3+}_3\text{Mg}_{24}\text{Zn}_{18}(\text{SO}_4)_4(\text{CO}_3)_2(\text{OH})_{81}$                                                                                                 | A  | 1979-012  | USA                                  | <i>American Mineralogist</i> <b>65</b> (1980), 192                                                                                     |                                                                                           |
| Hauerite      | $\text{MnS}_2$                                                                                                                                                                               | G  | 1846      | Slovakia                             | <i>Berichte Über die Mittheilungen von Freunden der Naturwissenschaften in Wien</i> <b>7</b> (1846), 2                                 | <i>Zeitschrift für Kristallographie</i> <b>234</b> (2019), 371                            |
| Hausmannite   | $\text{Mn}^{2+}\text{Mn}^{3+}_2\text{O}_4$                                                                                                                                                   | G  | 1828      | Germany                              | <i>Philosophical Magazine</i> <b>4</b> (1828), 96                                                                                      | <i>Minerals</i> <b>9</b> (2019), 343                                                      |
| Haüyne        | $\text{Na}_3\text{Ca}(\text{Si}_3\text{Al}_3)\text{O}_{12}(\text{SO}_4)$                                                                                                                     | G  | 1807      | Italy                                | <i>Journal des Mines</i> <b>21</b> (1807), 365                                                                                         | <i>Physics and Chemistry of Minerals</i> <b>39</b> (2012), 733                            |
| Hawleyite     | $\text{CdS}$                                                                                                                                                                                 | G  | 1955      | Canada                               | <i>American Mineralogist</i> <b>40</b> (1955), 555                                                                                     |                                                                                           |
| Hawthorneite  | $\text{Ba}[\text{Ti}_3\text{Cr}_4\text{Fe}^{3+}_2\text{Fe}^{2+}_2\text{Mg}]\text{O}_{19}$                                                                                                    | A  | 1988-019  | South Africa                         | <i>American Mineralogist</i> <b>74</b> (1989), 668                                                                                     | <i>American Mineralogist</i> <b>72</b> (1987), 633                                        |
| Haxonite      | $\text{NiFe}_{22}\text{C}_6$                                                                                                                                                                 | A  | 1971-001  | Mexico (meteorite) / USA (meteorite) | <i>Nature</i> <b>229</b> (1971), 61                                                                                                    | <a href="https://doi.org/10.2138/am-2025-10067">https://doi.org/10.2138/am-2025-10067</a> |
| Haycockite    | $\text{Cu}_4\text{Fe}_5\text{S}_8$                                                                                                                                                           | A  | 1971-028  | South Africa                         | <i>American Mineralogist</i> <b>57</b> (1972), 689                                                                                     | <i>Acta Crystallographica</i> <b>B31</b> (1975), 2105                                     |
| Haydeeite     | $\text{Cu}_3\text{Mg}(\text{OH})_6\text{Cl}_2$                                                                                                                                               | A  | 2006-046  | Chile                                | <i>Neues Jahrbuch für Mineralogie Abhandlungen</i> <b>184</b> (2007), 39                                                               | <i>Acta Crystallographica</i> <b>B63</b> (2007), 157                                      |
| Hayelasdiite  | $[\text{Pb}_4\text{O}_{1.5}(\text{OH})_{2.5}(\text{H}_2\text{O})]_2[\text{Cu}^+{}_5(\text{S}_2\text{O}_3)_4(\text{S}_2\text{O}_2\text{OH})_2(\text{H}_2\text{O})] \cdot 2\text{H}_2\text{O}$ | A  | 2022-021  | USA                                  | <i>Canadian Journal of Mineralogy and Petrology</i> <b>62</b> (2024), 379                                                              |                                                                                           |
| Haynesite     | $(\text{UO}_2)_3(\text{Se}^{4+}\text{O}_3)_2(\text{OH})_2 \cdot 5\text{H}_2\text{O}$                                                                                                         | A  | 1990-023  | USA                                  | <i>Canadian Mineralogist</i> <b>29</b> (1991), 561                                                                                     |                                                                                           |

|                  |                                                                                                                                                              |    |           |                   |                                                                                                                                        |                                                                                  |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----------|-------------------|----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
| Haywoodite       | [Pb(H <sub>2</sub> O) <sub>10</sub> ][Zn <sub>12</sub> (OH) <sub>20</sub> (H <sub>2</sub> O)(SO <sub>4</sub> ) <sub>3</sub> ]                                | A  | 2021-115  | USA               | <i>Canadian Journal of Mineralogy and Petrology</i> <b>61</b> (2023), 1137                                                             |                                                                                  |
| Hayyanite        | Cu <sub>5</sub> Ag <sub>11</sub> Pb <sub>76</sub> Sb <sub>71</sub> As <sub>17</sub> (As <sup>2+</sup> ) <sub>6</sub> S <sub>224</sub>                        | A  | 2023-048  | Iran              | CNMNC Newsletter 75 - <i>Mineralogical Magazine</i> <b>87</b> (2023), 955; <i>European Journal of Mineralogy</i> <b>35</b> (2023), 891 |                                                                                  |
| Hazenite         | KNaMg <sub>2</sub> (PO <sub>4</sub> ) <sub>2</sub> (H <sub>2</sub> O) <sub>14</sub>                                                                          | A  | 2007-061  | USA               | <i>American Mineralogist</i> <b>96</b> (2011), 675                                                                                     |                                                                                  |
| Heamanite-(Ce)   | (K <sub>0.5</sub> Ce <sub>0.5</sub> )TiO <sub>3</sub>                                                                                                        | A  | 2020-001  | Canada            | <i>American Mineralogist</i> <b>107</b> (2022), 1635                                                                                   |                                                                                  |
| Heazlewoodite    | Ni <sub>3</sub> S <sub>2</sub>                                                                                                                               | G  | 1897      | Australia         | Report of the Secretary for Mines. William Grahame, Hobart (1897), 47                                                                  | <i>Acta Chemica Scandinavica</i> <b>48</b> (1994), 290                           |
| Hechtsbergite    | Bi <sub>2</sub> O(VO <sub>4</sub> )(OH)                                                                                                                      | A  | 1995-050  | Germany           | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1997), 271                                                                          |                                                                                  |
| Hectorfloresite  | Na <sub>9</sub> (IO <sub>3</sub> )(SO <sub>4</sub> ) <sub>4</sub>                                                                                            | A  | 1987-050a | Chile             | <i>American Mineralogist</i> <b>74</b> (1989), 1207                                                                                    |                                                                                  |
| Hectorite        | Na <sub>0.3</sub> (Mg,Li) <sub>3</sub> Si <sub>4</sub> O <sub>10</sub> (F,OH) <sub>2</sub> ·nH <sub>2</sub> O                                                | Q  | 1941      | USA               | <i>Zeitschrift für Anorganische und Allgemeine Chemie</i> <b>247</b> (1941), 65                                                        | <i>Clays and Clay Minerals</i> <b>18</b> (1970), 139                             |
| Hedegaardite     | (Ca,Na) <sub>9</sub> (Ca,Na)Mg(PO <sub>4</sub> ) <sub>6</sub> (PO <sub>3</sub> OH)                                                                           | A  | 2014-069  | Chile             | CNMNC Newsletter 23 - <i>Mineralogical Magazine</i> <b>79</b> (2015), 51                                                               |                                                                                  |
| Hedenbergite     | CaFe <sup>2+</sup> Si <sub>2</sub> O <sub>6</sub>                                                                                                            | A  | 1988 s.p. | Sweden            | Nouveau Système de Minéralogie. Méquignon-Marvis, Paris (1819), 269                                                                    | <i>American Mineralogist</i> <b>92</b> (2007), 1492                              |
| Hedleyite        | Bi <sub>7</sub> Te <sub>3</sub>                                                                                                                              | G  | 1945      | Canada            | <i>University of Toronto Studies, Geological Series</i> <b>49</b> (1945), 55                                                           | <i>Canadian Mineralogist</i> <b>45</b> (2007), 665                               |
| Hedyphane        | Ca <sub>2</sub> Pb <sub>3</sub> (AsO <sub>4</sub> ) <sub>3</sub> Cl                                                                                          | A  | 1980 s.p. | Sweden            | <i>Journal für Chemie und Physik</i> <b>60</b> (1830), 310                                                                             | <i>American Mineralogist</i> <b>69</b> (1984), 920                               |
| Heflikite        | Ca <sub>2</sub> (Al <sub>2</sub> Sc)(Si <sub>2</sub> O <sub>7</sub> )(SiO <sub>4</sub> )O(OH)                                                                | A  | 2022-139  | Poland            | <i>Mineralogical Magazine</i> <b>88</b> (2024), 228                                                                                    |                                                                                  |
| Hefttjernite     | ScTaO <sub>4</sub>                                                                                                                                           | A  | 2006-056  | Norway            | <i>European Journal of Mineralogy</i> <b>22</b> (2010), 309                                                                            |                                                                                  |
| Heideite         | (Fe,Cr) <sub>1.15</sub> (Ti,Fe) <sub>2</sub> S <sub>4</sub>                                                                                                  | A  | 1973-062  | India (meteorite) | <i>American Mineralogist</i> <b>59</b> (1974), 465                                                                                     |                                                                                  |
| Heidornite       | Na <sub>2</sub> Ca <sub>3</sub> B <sub>5</sub> O <sub>8</sub> (SO <sub>4</sub> ) <sub>2</sub> (OH) <sub>2</sub> Cl                                           | G  | 1956      | Germany           | <i>Beiträge zur Mineralogie und Petrographie</i> <b>5</b> (1956), 177                                                                  | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1967), 157                    |
| Heimaeyite       | Na <sub>3</sub> Al(SO <sub>4</sub> ) <sub>3</sub>                                                                                                            | A  | 2023-127a | Iceland           | <i>European Journal of Mineralogy</i> <b>37</b> (2025), 79                                                                             |                                                                                  |
| Heimite          | PbCu <sub>2</sub> (AsO <sub>4</sub> )(OH) <sub>3</sub> (H <sub>2</sub> O) <sub>2</sub>                                                                       | A  | 2022-019  | Switzerland       | <i>European Journal of Mineralogy</i> <b>36</b> (2024), 153                                                                            |                                                                                  |
| Heinrichite      | Ba(UO <sub>2</sub> ) <sub>2</sub> (AsO <sub>4</sub> ) <sub>2</sub> (H <sub>2</sub> O) <sub>10</sub>                                                          | G  | 1958      | USA / Germany     | <i>American Mineralogist</i> <b>43</b> (1958), 1134                                                                                    | <i>Canadian Mineralogist</i> <b>43</b> (2005), 721                               |
| Heisenbergite    | (UO <sub>2</sub> )(OH) <sub>2</sub> ·H <sub>2</sub> O                                                                                                        | A  | 2010-076  | Germany           | <i>Neues Jahrbuch für Mineralogie Abhandlungen</i> <b>189</b> (2012), 117                                                              |                                                                                  |
| Hejtmanite       | Ba <sub>2</sub> Mn <sup>2+</sup> <sub>4</sub> Ti <sub>2</sub> (Si <sub>2</sub> O <sub>7</sub> ) <sub>2</sub> O <sub>2</sub> (OH) <sub>2</sub> F <sub>2</sub> | Rd | 1989-038  | Zambia            | <i>European Journal of Mineralogy</i> <b>4</b> (1992), 35                                                                              | <i>Mineralogical Magazine</i> <b>80</b> (2016), 841                              |
| Heklaite         | KNaSiF <sub>6</sub>                                                                                                                                          | A  | 2008-052  | Iceland           | <i>Mineralogical Magazine</i> <b>74</b> (2010), 147                                                                                    |                                                                                  |
| Hellandite-(Ce)  | (Ca, <i>REE</i> ) <sub>4</sub> Ce <sub>2</sub> Al□ <sub>2</sub> (B <sub>4</sub> Si <sub>4</sub> O <sub>22</sub> )(OH) <sub>2</sub>                           | A  | 2001-019  | Italy             | <i>American Mineralogist</i> <b>87</b> (2002), 745                                                                                     | <i>American Mineralogist</i> <b>84</b> (1999), 913                               |
| Hellandite-(Y)   | (Ca, <i>REE</i> ) <sub>4</sub> Y <sub>2</sub> Al□ <sub>2</sub> (B <sub>4</sub> Si <sub>4</sub> O <sub>22</sub> )(OH) <sub>2</sub>                            | Rd | 2002 s.p. | Norway            | <i>Nyt Magazin for Naturvidenskaberne</i> <b>41</b> (1903), 213                                                                        | <i>Canadian Mineralogist</i> <b>53</b> (2015), 345                               |
| Hellyerite       | Ni(CO <sub>3</sub> )·6H <sub>2</sub> O                                                                                                                       | A  | 1962 s.p. | Australia         | <i>American Mineralogist</i> <b>44</b> (1959), 533                                                                                     | <i>Zeitschrift für Anorganische und Allgemeine Chemie</i> <b>642</b> (2016), 652 |
| Helmutwinklerite | PbZn <sub>2</sub> (AsO <sub>4</sub> ) <sub>2</sub> (H <sub>2</sub> O) <sub>2</sub>                                                                           | A  | 1979-010  | Namibia           | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1980), 118                                                                          | <i>European Journal of Mineralogy</i> <b>10</b> (1998), 179                      |
| Helvine          | Be <sub>3</sub> Mn <sup>2+</sup> <sub>4</sub> (SiO <sub>4</sub> ) <sub>3</sub> S                                                                             | G  | 1817      | Germany           | Letztes Mineral-System. Craz und Gerlach und Carl Gerold, Freiberg und Wien (1817), 29                                                 | <i>American Mineralogist</i> <b>70</b> (1985), 186                               |
| Hematite         | Fe <sub>2</sub> O <sub>3</sub>                                                                                                                               | A  | 1971 s.p. | unknown           | original paper?                                                                                                                        | <i>Acta Crystallographica</i> <b>B73</b> (2017), 27                              |

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| Hematolite       | $(\text{Mn,Mg,Al})_{15}(\text{AsO}_3)(\text{AsO}_4)_2(\text{OH})_{23}$                                   | G  | 1884      | Sweden         | <i>Svenska Vetenskaps-Akademiens Stockholm, Öfv.</i> <b>41</b> (1884), 85                                                              | <i>Canadian Mineralogist</i> <b>37</b> (1999), 1471                                         |
| Hematophanite    | $\text{Pb}_4\text{Fe}^{3+}_3\text{O}_8(\text{Cl,OH})$                                                    | G  | 1928      | Sweden         | <i>Zeitschrift für Kristallographie</i> <b>68</b> (1928), 87                                                                           | <i>Mineralogical Magazine</i> <b>39</b> (1973), 49                                          |
| Hemihedrite      | $\text{ZnPb}_{10}(\text{CrO}_4)_6(\text{SiO}_4)_2(\text{OH})_2$                                          | A  | 1967-011  | USA            | <i>American Mineralogist</i> <b>55</b> (1970), 1088                                                                                    | <i>Mineralogical Magazine</i> <b>81</b> (2017), 1021                                        |
| Hemimorphite     | $\text{Zn}_4(\text{Si}_2\text{O}_7)(\text{OH})_2 \cdot \text{H}_2\text{O}$                               | A  | 1962 s.p. | Romania        | Das Mohs'sche Mineralsystem. Gerold, Wien (1853), 67                                                                                   | <i>IUCrJ</i> <b>12</b> (2025), 62                                                           |
| Hemleyite        | $\text{FeSiO}_3$                                                                                         | A  | 2016-085  | China          | <i>Scientific Reports</i> <b>7</b> (2017), 42674                                                                                       |                                                                                             |
| Hemloite         | $(\text{Ti,V}^{3+},\text{Fe}^{3+},\text{Al})_{12}\text{As}^{3+}_2\text{O}_{23}(\text{OH})$               | A  | 1987-015  | Canada         | <i>Canadian Mineralogist</i> <b>27</b> (1989), 427                                                                                     |                                                                                             |
| Hemusite         | $\text{Cu}^{1+}_4\text{Cu}^{2+}_2\text{SnMoS}_8$                                                         | A  | 1968-038  | Bulgaria       | <i>American Mineralogist</i> <b>56</b> (1971), 1847                                                                                    | <i>Mineralogy and Petrology</i> <b>45</b> (1991), 11-17                                     |
| Hendekasartorite | $\text{Ti}_2\text{Pb}_{48}\text{As}_{82}\text{S}_{172}$                                                  | A  | 2015-075  | Switzerland    | <i>European Journal of Mineralogy</i> <b>29</b> (2017), 701                                                                            |                                                                                             |
| Hendersonite     | $\text{Ca}_{1.3}(\text{V}^{5+},\text{V}^{4+})_6\text{O}_{16} \cdot 6\text{H}_2\text{O}$                  | A  | 1967 s.p. | USA            | <i>American Mineralogist</i> <b>47</b> (1962), 1252                                                                                    |                                                                                             |
| Hendricksite     | $\text{KZn}_3(\text{Si}_3\text{Al})\text{O}_{10}(\text{OH})_2$                                           | A  | 1965-027  | USA            | <i>American Mineralogist</i> <b>51</b> (1966), 1107                                                                                    | <i>Tschermaks Mineralogische und Petrographische Mitteilungen</i> <b>34</b> (1985), 1       |
| Heneuite         | $\text{CaMg}_5(\text{PO}_4)_3(\text{CO}_3)(\text{OH})$                                                   | A  | 1983-057  | Norway         | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1986), 343                                                                          | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1986), 351                               |
| Henmilite        | $\text{Ca}_2\text{Cu}[\text{B}(\text{OH})_4]_2(\text{OH})_4$                                             | A  | 1981-050  | Japan          | <i>American Mineralogist</i> <b>71</b> (1986), 1234                                                                                    |                                                                                             |
| Hennomartinite   | $\text{SrMn}^{3+}_2(\text{Si}_2\text{O}_7)(\text{OH})_2(\text{H}_2\text{O})$                             | A  | 1992-033  | South Africa   | <i>Schweizerische Mineralogische und Petrographische Mitteilungen</i> <b>73</b> (1993), 349                                            | <i>American Mineralogist</i> <b>81</b> (1996), 9                                            |
| Henritermierite  | $\text{Ca}_3\text{Mn}^{3+}_2(\text{SiO}_4)_2(\text{OH})_4$                                               | Rn | 1968-029  | Morocco        | <i>Bulletin de la Société Française de Minéralogie et de Cristallographie</i> <b>92</b> (1969), 185                                    | <i>Acta Crystallographica</i> <b>B74</b> (2018), 104                                        |
| Henryite         | $(\text{Cu,Ag})_{3+x}\text{Te}_2$ [x ~ 0.4]                                                              | A  | 1982-094  | USA            | <i>Bulletin de Minéralogie</i> <b>106</b> (1983), 511                                                                                  | <i>Solid State Sciences</i> <b>38</b> (2014), 108                                           |
| Henrymeyerite    | $\text{Ba}(\text{Ti}_7\text{Fe}^{2+})\text{O}_{16}$                                                      | A  | 1999-016  | Russia         | <i>Canadian Mineralogist</i> <b>38</b> (2000), 617                                                                                     |                                                                                             |
| Henrysunite      | $\text{Na}_2(\text{C}_2\text{H}_3\text{O}_3)_2(\text{H}_2\text{O})$                                      | A  | 2025-065  | USA            | CNMNC Newsletter 88 - <i>Mineralogical Magazine</i> <b>90</b> (2026), 192; <i>European Journal of Mineralogy</i> <b>37</b> (2025), 921 | <a href="https://doi.org/10.1180/mgm.2026.10239">https://doi.org/10.1180/mgm.2026.10239</a> |
| Hentschelite     | $\text{CuFe}^{3+}_2(\text{PO}_4)_2(\text{OH})_2$                                                         | A  | 1985-057  | Germany        | <i>American Mineralogist</i> <b>72</b> (1987), 404                                                                                     | <i>Acta Crystallographica</i> <b>C43</b> (1987), 1855                                       |
| Hephaistosite    | $\text{TiPb}_2\text{Cl}_5$                                                                               | A  | 2006-043  | Italy          | <i>Canadian Mineralogist</i> <b>46</b> (2008), 701                                                                                     | <i>Mineralogy and Petrology</i> <b>96</b> (2009), 121                                       |
| Heptasartorite   | $\text{Ti}_7\text{Pb}_{22}\text{As}_{55}\text{S}_{108}$                                                  | A  | 2015-073  | Switzerland    | <i>European Journal of Mineralogy</i> <b>29</b> (2017), 701                                                                            | <i>European Journal of Mineralogy</i> <b>30</b> (2018), 149                                 |
| Herbertsmithite  | $\text{Cu}_3\text{Zn}(\text{OH})_6\text{Cl}_2$                                                           | A  | 2003-041  | Chile          | <i>Mineralogical Magazine</i> <b>68</b> (2004), 527                                                                                    | <i>Mineralogical Magazine</i> <b>81</b> (2017), 123                                         |
| Hercynite        | $\text{Fe}^{2+}\text{Al}_2\text{O}_4$                                                                    | G  | 1839      | Czech Republic | <i>Verhandlungen der Gesellschaft des Vaterländischen Museums in Böhmen</i> (1839), 19                                                 | <i>European Journal of Mineralogy</i> <b>29</b> (2017), 63                                  |
| Herderite        | $\text{CaBe}(\text{PO}_4)\text{F}$                                                                       | G  | 1828      | Germany        | <i>Philosophical Magazine</i> <b>4</b> (1828), 1                                                                                       | <i>American Mineralogist</i> <b>93</b> (2008), 1545                                         |
| Hereroite        | $[\text{Pb}_{32}(\text{O},\square)_{21}](\text{AsO}_4)_2[(\text{Si,As,V,Mo})\text{O}_4]_2\text{Cl}_{10}$ | A  | 2011-027  | Namibia        | <i>Mineralogical Magazine</i> <b>76</b> (2012), 883                                                                                    | <i>American Mineralogist</i> <b>98</b> (2013), 248                                          |
| Hermannjahnite   | $\text{CuZn}(\text{SO}_4)_2$                                                                             | A  | 2015-050  | Russia         | <i>Mineralogy and Petrology</i> <b>112</b> (2018), 123                                                                                 |                                                                                             |
| Hermannroseite   | $\text{CaCu}(\text{PO}_4)(\text{OH})$                                                                    | A  | 2010-006  | Namibia        | <i>Neues Jahrbuch für Mineralogie Abhandlungen</i> <b>188</b> (2011), 135                                                              |                                                                                             |
| Herzenbergite    | $\text{SnS}$                                                                                             | G  | 1934      | Bolivia        | <i>Neues Jahrbuch für Mineralogie</i> <b>68A</b> (1934), 292                                                                           | <i>Acta Crystallographica</i> <b>B37</b> (1981), 1903                                       |

|                  |                                                                                                                                                                      |    |           |                    |                                                                                                    |                                                                    |
|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----------|--------------------|----------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|
| Hessite          | Ag <sub>2</sub> Te                                                                                                                                                   | G  | 1843      | Kazakhstan         | Grundzüge eines Systemes der Krystallogogie. Literarisches Comptoir, Zurich Und Winterthur (1843)  | <i>Zeitschrift für Kristallographie</i> <b>203</b> (1993), 1       |
| Hetaerolite      | ZnMn <sup>3+</sup> <sub>2</sub> O <sub>4</sub>                                                                                                                       | G  | 1877      | USA                | <i>American Journal of Science and Arts</i> <b>114</b> (1877), 423                                 | <i>Physical Review B</i> <b>60</b> (1999), 12651                   |
| Heterogenite     | Co <sup>3+</sup> O(OH)                                                                                                                                               | A  | 1967 s.p. | Germany            | <i>Journal für Praktische Chemie</i> <b>5</b> (1872), 401                                          | <i>Mineralogical Magazine</i> <b>39</b> (1973), 152                |
| Heteromorphite   | Pb <sub>7</sub> Sb <sub>8</sub> S <sub>19</sub>                                                                                                                      | G  | 1849      | Germany            | <i>Annalen der Physik und Chemie</i> <b>77</b> (1849), 236                                         | <i>Zeitschrift für Kristallographie</i> <b>151</b> (1980), 193     |
| Heterosite       | Fe <sup>3+</sup> (PO <sub>4</sub> )                                                                                                                                  | G  | 1826      | France             | <i>Annales des Sciences Naturelles</i> <b>8</b> (1826), 334                                        | <i>American Mineralogist</i> <b>57</b> (1972), 45                  |
| Heulandite-Ba    | (Ba,Ca,K) <sub>5</sub> (Si <sub>27</sub> Al <sub>9</sub> )O <sub>72</sub> ·22H <sub>2</sub> O                                                                        | A  | 2003-001  | Norway             | <i>European Journal of Mineralogy</i> <b>17</b> (2005), 143                                        |                                                                    |
| Heulandite-Ca    | (Ca,Na,K) <sub>5</sub> (Si <sub>27</sub> Al <sub>9</sub> )O <sub>72</sub> ·26H <sub>2</sub> O                                                                        | Rn | 1997 s.p. | United Kingdom     | <i>Edinburgh Philosophy Journal</i> <b>6</b> (1822), 112                                           | <i>Microporous and Mesoporous Materials</i> <b>214</b> (2015), 127 |
| Heulandite-K     | (K,Ca,Na) <sub>5</sub> (Si <sub>27</sub> Al <sub>9</sub> )O <sub>72</sub> ·26H <sub>2</sub> O                                                                        | A  | 1997 s.p. | Italy              | <i>Periodico di Mineralogia</i> <b>38</b> (1969), 237                                              | <i>American Mineralogist</i> <b>82</b> (1997), 517                 |
| Heulandite-Na    | (Na,Ca,K) <sub>6</sub> (Si,Al) <sub>36</sub> O <sub>72</sub> ·22H <sub>2</sub> O                                                                                     | A  | 1997 s.p. | USA                | <i>Proceedings of the United States National Museum</i> <b>64</b> (1924), 1                        | <i>American Mineralogist</i> <b>57</b> (1972), 1463                |
| Heulandite-Sr    | (Sr,Ca,Na) <sub>5</sub> (Si <sub>27</sub> Al <sub>9</sub> )O <sub>72</sub> ·24H <sub>2</sub> O                                                                       | A  | 1997 s.p. | Italy              | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1982), 541                                      | <i>American Mineralogist</i> <b>88</b> (2003), 527                 |
| Hewettite        | CaV <sup>5+</sup> <sub>6</sub> O <sub>16</sub> (H <sub>2</sub> O) <sub>9</sub>                                                                                       | G  | 1914      | Peru               | <i>Proceedings of the American Philosophical Society</i> <b>53</b> (1914), 31                      | <i>Canadian Mineralogist</i> <b>27</b> (1989), 181                 |
| Hexacelsian      | Ba(Al <sub>2</sub> Si <sub>2</sub> O <sub>8</sub> )                                                                                                                  | A  | 2015-045  | Israel             | <i>Mineralogical Magazine</i> <b>81</b> (2017), 1009                                               |                                                                    |
| Hexaferrum       | (Fe,Os,Ru,Ir)                                                                                                                                                        | A  | 1995-032  | Russia             | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>127(5)</b> (1998), 41              | <i>Mineralogical Magazine</i> <b>82</b> (2018), 531                |
| Hexahydrate      | Mg(SO <sub>4</sub> )(H <sub>2</sub> O) <sub>6</sub>                                                                                                                  | G  | 1911      | Canada             | <i>Geological Survey of Canada, Summary Report 1910</i> (1911), 256                                | <i>Acta Crystallographica</i> <b>C56</b> (2000), e230              |
| Hexahydroborite  | Ca[B(OH) <sub>4</sub> ] <sub>12</sub> ·2H <sub>2</sub> O                                                                                                             | A  | 1977-015  | Russia             | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>106</b> (1977), 691                  | <i>Crystallography Reports</i> <b>56</b> (2011), 1019              |
| Hexamolybdenum   | (Mo,Ru,Fe,Ir,Os)                                                                                                                                                     | A  | 2007-029  | Mexico (meteorite) | <i>American Mineralogist</i> <b>99</b> (2014), 654                                                 |                                                                    |
| Hexathioplumbite | [Pb <sub>4</sub> (OH) <sub>4</sub> ]Pb(S <sub>2</sub> O <sub>3</sub> ) <sub>3</sub>                                                                                  | A  | 2021-092  | USA                | <i>Canadian Journal of Mineralogy and Petrology</i> <b>61</b> (2023), 623                          |                                                                    |
| Heyerdahlite     | Na <sub>3</sub> Mn <sub>7</sub> Ti <sub>2</sub> (Si <sub>4</sub> O <sub>12</sub> ) <sub>2</sub> O <sub>2</sub> (OH) <sub>4</sub> F(H <sub>2</sub> O) <sub>2</sub>    | A  | 2016-108  | Norway             | <i>Mineralogical Magazine</i> <b>82</b> (2018), 243                                                |                                                                    |
| Heyite           | Pb <sub>5</sub> Fe <sup>2+</sup> <sub>2</sub> O <sub>4</sub> (VO <sub>4</sub> ) <sub>2</sub>                                                                         | A  | 1971-042  | USA                | <i>Mineralogical Magazine</i> <b>39</b> (1973), 65                                                 |                                                                    |
| Heyrovskýite     | Pb <sub>6</sub> Bi <sub>2</sub> S <sub>9</sub>                                                                                                                       | A  | 1970-022  | Czech Republic     | <i>Mineralium Deposita</i> <b>6</b> (1971), 133                                                    | <i>American Mineralogist</i> <b>96</b> (2011), 1120                |
| Hezuolinite      | (Sr, <i>REE</i> ) <sub>4</sub> Zr(Ti,Fe <sup>3+</sup> ,Fe <sup>2+</sup> ) <sub>2</sub> Ti <sub>2</sub> (Si <sub>2</sub> O <sub>7</sub> ) <sub>2</sub> O <sub>8</sub> | A  | 2010-045  | China              | <i>European Journal of Mineralogy</i> <b>24</b> (2012), 189                                        |                                                                    |
| Hiärneite        | Ca <sub>2</sub> Zr <sub>4</sub> Mn <sup>3+</sup> SbTiO <sub>16</sub>                                                                                                 | Rd | 1996-040  | Sweden             | <i>European Journal of Mineralogy</i> <b>9</b> (1997), 843                                         | <i>Mineralogical Magazine</i> <b>86</b> (2022), 314                |
| Hibbingite       | Fe <sup>2+</sup> <sub>2</sub> Cl(OH) <sub>3</sub>                                                                                                                    | A  | 1991-036  | USA                | <i>American Mineralogist</i> <b>79</b> (1994), 555                                                 | <i>American Mineralogist</i> <b>107</b> (2022), 826                |
| Hibonite         | Ca[Al <sub>12</sub> ]O <sub>19</sub>                                                                                                                                 | Rd | 2020 s.p. | Madagascar         | <i>Comptes Rendus Hebdomadaires des Séances de l'Académie des Sciences</i> <b>242</b> (1956), 2845 | <i>Mineralogical Magazine</i> <b>74</b> (2010), 871                |
| Hidalgoite       | PbAl <sub>3</sub> (SO <sub>4</sub> )(AsO <sub>4</sub> )(OH) <sub>6</sub>                                                                                             | Rd | 1987 s.p. | Mexico             | <i>American Mineralogist</i> <b>38</b> (1953), 1218                                                | <i>Mineralogical Magazine</i> <b>76</b> (2012), 839                |
| Hielscherite     | Ca <sub>3</sub> Si[(SO <sub>4</sub> )(SO <sub>3</sub> )(OH) <sub>6</sub> ](H <sub>2</sub> O) <sub>11</sub>                                                           | A  | 2011-037  | Germany            | <i>Mineralogical Magazine</i> <b>76</b> (2012), 1133                                               |                                                                    |

|                 |                                                                                     |    |           |                   |                                                                                                                                        |                                                                           |
|-----------------|-------------------------------------------------------------------------------------|----|-----------|-------------------|----------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|
| Hieratite       | $K_2SiF_6$                                                                          | G  | 1882      | Italy             | <i>Transunti dell'Accademia dei Lincei, Serie III</i> <b>6</b> (1882), 141                                                             | <i>Acta Crystallographica</i> <b>B71</b> (2015), 328                      |
| Hilairite       | $Na_2ZrSi_3O_9(H_2O)_3$                                                             | A  | 1972-019  | Canada            | <i>Canadian Mineralogist</i> <b>12</b> (1974), 237                                                                                     | <i>European Journal of Mineralogy</i> <b>21</b> (2009), 495               |
| Hilarionite     | $Fe^{3+}_2(SO_4)(AsO_4)(OH) \cdot 6H_2O$                                            | A  | 2011-089  | Greece            | <i>Zapiski Rossiyskogo Mineralogicheskogo Obshchestva</i> <b>142(5)</b> (2013), 30                                                     |                                                                           |
| Hilgardite      | $Ca_2B_5O_9Cl(H_2O)$                                                                | G  | 1937      | United Kingdom    | <i>American Mineralogist</i> <b>22</b> (1937), 1052                                                                                    | <i>Acta Crystallographica</i> <b>C50</b> (1994), 653                      |
| Hillebrandite   | $Ca_2SiO_3(OH)_2$                                                                   | G  | 1908      | Mexico            | <i>American Journal of Science</i> <b>176</b> (1908), 545                                                                              | <i>American Mineralogist</i> <b>80</b> (1995), 841                        |
| Hillesheimite   | $(K,Ca,Ba,\square)_2(Mg,Fe,Ca,\square)_2[(Si,Al)_{13}O_{23}(OH)_6](OH) \cdot 8H_2O$ | A  | 2011-080  | Germany           | <i>Zapiski Rossiyskogo Mineralogicheskogo Obshchestva</i> <b>141(3)</b> (2012), 29                                                     |                                                                           |
| Hillite         | $Ca_2Zn(PO_4)_2(H_2O)_2$                                                            | A  | 2003-005  | Australia         | <i>Canadian Mineralogist</i> <b>41</b> (2003), 981                                                                                     |                                                                           |
| Hingganite-(Ce) | $CeBe(SiO_4)(OH)$                                                                   | A  | 2004-004  | Japan             | <i>Journal of Mineralogical and Petrological Sciences</i> <b>102</b> (2007), 1                                                         |                                                                           |
| Hingganite-(Nd) | $Nd_2\square Be_2(Si_2O_8)(OH)_2$                                                   | A  | 2019-028  | Pakistan          | <i>Canadian Mineralogist</i> <b>58</b> (2020), 549                                                                                     |                                                                           |
| Hingganite-(Y)  | $YBe(SiO_4)(OH)$                                                                    | Rn | 1987 s.p. | China             | <i>Acta Petrologica Mineralogica et Analytica</i> <b>3</b> (1984), 46                                                                  | <i>Minerals</i> <b>10</b> (2020), 322                                     |
| Hingganite-(Yb) | $YbBe(SiO_4)(OH)$                                                                   | A  | 1982-041  | Russia            | <i>Doklady Akademii Nauk SSSR</i> <b>270</b> (1983), 1188                                                                              | <i>Kristallografiya</i> <b>28</b> (1983), 457                             |
| Hinokageite     | $MnMg(SiO_4)$                                                                       | A  | 2024-093a | Japan             | CNMNC Newsletter 87 - <i>Mineralogical Magazine</i> <b>89</b> (2025), 706; <i>European Journal of Mineralogy</i> <b>37</b> (2025), 695 |                                                                           |
| Hinsdalite      | $PbAl_3(SO_4)(PO_4)(OH)_6$                                                          | Rd | 1987 s.p. | USA               | <i>Journal of the Washington Academy of Sciences</i> <b>1</b> (1911), 25                                                               | <i>European Journal of Mineralogy</i> <b>11</b> (1999), 513               |
| Hiortdahlite    | $Na_2Ca_4(Ca_{0.5}Zr_{0.5})Zr(Si_2O_7)_2OF_3$                                       | Rd | 1987 s.p. | Norway            | <i>Nyt Magazin for Naturvidenskaberne</i> <b>31</b> (1890), 232                                                                        | <i>Canadian Mineralogist</i> <b>50</b> (2012), 531                        |
| Hiroseite       | $FeSiO_3$                                                                           | A  | 2019-019  | China (meteorite) | <i>Science Advances</i> <b>6</b> (2020), eaay7893                                                                                      |                                                                           |
| Hisingerite     | $Fe_2Si_2O_5(OH)_4 \cdot 2H_2O$                                                     | G  | 1819      | Sweden            | Nouveau Système de Minéralogie. Méquignon-Marvis, Paris (1819), 210                                                                    | <i>Clays and Clay Minerals</i> <b>46</b> (1998), 400                      |
| Hitachiite      | $Pb_5Bi_2Te_2S_6$                                                                   | A  | 2018-027  | Japan             | <i>Mineralogical Magazine</i> <b>83</b> (2019), 733                                                                                    | <i>Acta Crystallographica</i> <b>B79</b> (2023), 482                      |
| Hizenite-(Y)    | $Ca_2Y_6(CO_3)_{11} \cdot 14H_2O$                                                   | A  | 2011-030  | Japan             | <i>Journal of Mineralogical and Petrological Sciences</i> <b>108</b> (2013), 161                                                       |                                                                           |
| Hjalmarite      | $Na(NaMn)Mg_5Si_8O_{22}(OH)_2$                                                      | A  | 2017-070  | Sweden            | <i>European Journal of Mineralogy</i> <b>31</b> (2019), 565                                                                            |                                                                           |
| Hloušekite      | $NiCu_4(AsO_4)_2(AsO_3OH)_2(H_2O)_8 \cdot H_2O$                                     | A  | 2013-048  | Czech Republic    | <i>Mineralogical Magazine</i> <b>78</b> (2014), 1341                                                                                   |                                                                           |
| Hocartite       | $Ag_2FeSnS_4$                                                                       | A  | 1967-046  | Bolivia / France  | <i>Bulletin de la Société Française de Minéralogie et de Cristallographie</i> <b>91</b> (1968), 383                                    |                                                                           |
| Hochelagaite    | $CaNb_4O_{11} \cdot 8H_2O$                                                          | A  | 1983-088  | Canada            | <i>Canadian Mineralogist</i> <b>24</b> (1986), 449                                                                                     |                                                                           |
| Hochleitnerite  | $[(H_2O)K]Mn_2(Ti_2Fe^{3+})(PO_4)_4O_2(H_2O)_{10} \cdot 4H_2O$                      | A  | 2022-141  | Germany           | <i>European Journal of Mineralogy</i> <b>35</b> (2023), 635                                                                            | <i>Canadian Journal of Mineralogy and Petrology</i> <b>62</b> (2024), 513 |
| Hodgesmithite   | $(Cu,Zn)_6Zn(SO_4)_2(OH)_{10} \cdot 3H_2O$                                          | A  | 2015-112  | Australia         | <i>Acta Crystallographica</i> <b>B75</b> (2019), 1069                                                                                  |                                                                           |
| Hodgkinsonite   | $Zn_2Mn^{2+}(SiO_4)(OH)_2$                                                          | G  | 1913      | USA               | <i>Journal of the Washington Academy of Sciences</i> <b>3</b> (1913), 474                                                              | <i>Zeitschrift für Kristallographie</i> <b>119</b> (1963), 117            |
| Hodrušite       | $Cu_8Bi_{12}S_{22}$                                                                 | Rn | 1969-025  | Slovakia          | <i>Mineralogical Magazine</i> <b>37</b> (1971), 641                                                                                    | <i>Canadian Mineralogist</i> <b>41</b> (2003), 1481                       |

|                 |                                                                                |    |            |                    |                                                                                                                                       |                                                              |
|-----------------|--------------------------------------------------------------------------------|----|------------|--------------------|---------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|
| Hoelite         | $C_{14}H_8O_2$                                                                 | G  | 1922       | Norway             | Resultater av de Norske Statsunderstøttede Spitsbergenekspeditioner <b>1</b> (1922), 9                                                | <i>Acta Crystallographica</i> <b>22</b> (1967), 439          |
| Hoganite        | $Cu(CH_3COO)_2(H_2O)$                                                          | A  | 2001-029   | Australia          | <i>Mineralogical Magazine</i> <b>66</b> (2002), 459                                                                                   | <i>Spectrochimica Acta A</i> <b>67</b> (2007), 48            |
| Hogarthite      | $(Na,K)_2CaTi_2Si_{10}O_{26}(H_2O)_{6.5} \cdot 1.5H_2O$                        | A  | 2009-043   | Canada             | <i>Canadian Mineralogist</i> <b>53</b> (2015), 13                                                                                     |                                                              |
| Høgtuvaite      | $Ca_4[Fe^{2+}_6Fe^{3+}_6]O_4[Si_8Be_2Al_2O_{36}]$                              | A  | 1990-051   | Norway             | <i>Canadian Mineralogist</i> <b>32</b> (1994), 439                                                                                    |                                                              |
| Hohmannite      | $Fe^{3+}_2O(SO_4)_2(H_2O)_4 \cdot 4H_2O$                                       | G  | 1888       | Chile              | <i>Mineralogische und petrographische Mittheilungen</i> <b>9</b> (1888), 397                                                          | <i>Mineralogical Magazine</i> <b>79</b> (2015), 11           |
| Hokkaidoite     | $C_{22}H_{12}$                                                                 | A  | 2022-104   | Japan              | CNMNC Newsletter 71 - <i>Mineralogical Magazine</i> <b>87</b> (2023), 332; <i>European Journal of Mineralogy</i> <b>35</b> (2023), 75 |                                                              |
| Holdawayite     | $Mn^{2+}_6(CO_3)_2(OH)_7(Cl,OH)$                                               | A  | 1986-001   | Namibia            | <i>American Mineralogist</i> <b>73</b> (1988), 632                                                                                    | <i>American Mineralogist</i> <b>73</b> (1988), 637           |
| Holdenite       | $Mn^{2+}_6Zn_3(AsO_4)_2(SiO_4)(OH)_8$                                          | G  | 1927       | USA                | <i>American Mineralogist</i> <b>12</b> (1927), 144                                                                                    | <i>American Mineralogist</i> <b>62</b> (1977), 513           |
| Holfertite      | $(UO_2)_{1.75}Ca_{0.25}TiO_4(H_2O)_3$                                          | A  | 2003-009   | USA                | <i>Mineralogical Record</i> <b>37</b> (2006), 311                                                                                     | <i>Canadian Mineralogist</i> <b>43</b> (2005), 1545          |
| Hollandite      | $Ba(Mn^{4+}_6Mn^{3+}_2)O_{16}$                                                 | Rd | 2012 s.p.  | India              | <i>Mineralogical Journal</i> <b>13</b> (1986), 119                                                                                    | <i>Acta Crystallographica</i> <b>B38</b> (1982), 1056        |
| Hollingworthite | $RhAsS$                                                                        | A  | 1964-029   | South Africa       | <i>American Mineralogist</i> <b>50</b> (1965), 1068                                                                                   | <i>Mineralium Deposita</i> <b>22</b> (1987), 178             |
| Hollisterite    | $Al_3Fe$                                                                       | A  | 2016-034   | Russia (meteorite) | <i>American Mineralogist</i> <b>102</b> (2017), 690                                                                                   |                                                              |
| Holmquistite    | $\square Li_2(Mg_3Al_2)Si_8O_{22}(OH)_2$                                       | Rd | 2012 s.p.  | Sweden             | <i>Sitzungsberichte der Heidelberger Akademie der Wissenschaften</i> (1913), 3                                                        | <i>American Mineralogist</i> <b>104</b> (2019), 1829         |
| Holtedahlite    | $Mg_{12}(PO_3OH,CO_3)(PO_4)_5(OH,O)_6$                                         | A  | 1976-054   | Norway             | <i>Lithos</i> <b>12</b> (1979), 283                                                                                                   | <i>Mineralogy and Petrology</i> <b>40</b> (1989), 91         |
| Holtite         | $(Ta_{0.6}\square_{0.4})Al_6BSi_3O_{18}$                                       | Rd | 1969-029   | Australia          | <i>Mineralogical Magazine</i> <b>38</b> (1971), 21                                                                                    | <i>Mineralogical Magazine</i> <b>73</b> (2009), 1033         |
| Holtstamite     | $Ca_3Al_2(SiO_4)_2(OH)_4$                                                      | A  | 2003-047   | South Africa       | <i>European Journal of Mineralogy</i> <b>17</b> (2005), 375                                                                           |                                                              |
| Holubite        | $Ag_3Pb_6(Sb_8Bi_3)S_{24}$                                                     | A  | 2022-112   | Czech Republic     | <i>Mineralogical Magazine</i> <b>87</b> (2023), 582                                                                                   |                                                              |
| Homilite        | $Ca_2Fe^{2+}B_2Si_2O_{10}$                                                     | G  | 1876       | Norway             | <i>Geologiska Föreningens i Stockholm Förhandlingar</i> <b>3</b> (1876), 229                                                          | <i>Acta Crystallographica</i> <b>C41</b> (1985), 13          |
| Honeaite        | $Au_3TiTe_2$                                                                   | A  | 2015-060   | Australia          | <i>European Journal of Mineralogy</i> <b>28</b> (2016), 979                                                                           | <i>Mineralogical Magazine</i> <b>81</b> (2017), 611          |
| Honessite       | $(Ni_{1-x}Fe^{3+}_x)(SO_4)_{x/2}(OH)_2 \cdot nH_2O$ ( $x < 0.5$ , $n < 3x/2$ ) | A  | 1962 s.p.  | USA                | <i>American Mineralogist</i> <b>44</b> (1959), 995                                                                                    | <i>Mineralogical Magazine</i> <b>44</b> (1981), 339          |
| Hongheite       | $Ca_{19}Fe^{2+}Al_4(Fe^{3+},Mg,Al)_8(\square,B)_4BSi_{18}O_{69}(O,OH)_9$       | A  | 2017-027   | China              | <i>Acta Geologica Sinica</i> <b>93</b> (2019), 138                                                                                    |                                                              |
| Hongshiite      | $PtCu$                                                                         | A  | 1988-xxx ? | China              | <i>Acta Geologica Sinica</i> <b>2</b> (1974), 202                                                                                     | <i>Canadian Mineralogist</i> <b>40</b> (2002), 711           |
| Honzaitite      | $Ni_2(H_2O)_4[AsO_3(OH)]_2 \cdot H_2O$                                         | A  | 2014-105   | Czech Republic     | <i>European Journal of Mineralogy</i> <b>30</b> (2018), 989                                                                           |                                                              |
| Hopeite         | $Zn_3(PO_4)_2(H_2O)_4$                                                         | G  | 1826       | Belgium            | <i>Transactions of the Royal Society of Edinburgh</i> <b>10</b> (1826), 107                                                           | <i>Chemistry - A European Journal</i> <b>10</b> (2004), 2795 |
| Hoperanchite    | $(NH_4)_2(S_2O_3)$                                                             | A  | 2024-017   | USA                | <i>American Mineralogist</i> <b>110</b> (2025), 1105                                                                                  |                                                              |
| Hopmannite      | $Ba_2(Ti_5Fe)O_{13}$                                                           | A  | 2025-034   | Germany            | <i>Mineralogy and Petrology</i> <b>120</b> (2026), 227                                                                                |                                                              |
| Horákite        | $(Bi_7O_7OH)[(UO_2)_4(PO_4)_2(AsO_4)_2(OH)_2] \cdot 3.5H_2O$                   | A  | 2017-033   | Czech Republic     | <i>Journal of Geosciences</i> <b>63</b> (2018), 265                                                                                   |                                                              |
| Horiite         | $Ba_2Mn_2Mn_4Ti_2(Si_2O_7)_2(PO_4)_2O_2(OH)_2$                                 | A  | 2025-029   | Japan              | <i>Journal of Mineralogical and Petrological Sciences</i> <b>121</b> (2026), 260301                                                   |                                                              |

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|-----------------|------------------------------------------------------------------------------------------------------------------------------|----|-----------|----------------|----------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| Hörnesite       | $\text{Mg}_3(\text{AsO}_4)_2(\text{H}_2\text{O})_8$                                                                          | G  | 1860      | Romania        | <i>Jahrbuch der Kaiserlich-Königlichen Geologischen Reichsanstalt</i> <b>11</b> (1860), 10                                             | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1966), 349                     |
| Horomanite      | $\text{Fe}_6\text{Ni}_3\text{S}_8$                                                                                           | A  | 2007-037  | Japan          | <i>Journal of Mineralogical and Petrological Sciences</i> <b>106</b> (2011), 204                                                       |                                                                                   |
| Horváthite-(Y)  | $\text{NaY}(\text{CO}_3)\text{F}_2$                                                                                          | A  | 1996-032  | Canada         | <i>Canadian Mineralogist</i> <b>35</b> (1997), 743                                                                                     |                                                                                   |
| Höslite         | $\text{Fe}^{3+}_3(\text{VO}_4)_2(\text{SO}_4)(\text{OH})(\text{H}_2\text{O})_4 \cdot 3\text{H}_2\text{O}$                    | A  | 2021-084  | Czech Republic | CNMNC Newsletter 65 - <i>Mineralogical Magazine</i> <b>86</b> (2022), 354; <i>European Journal of Mineralogy</i> <b>34</b> (2022), 143 |                                                                                   |
| Hotsonite       | $\text{Al}_5(\text{SO}_4)(\text{PO}_4)(\text{OH})_{10} \cdot 8\text{H}_2\text{O}$                                            | A  | 1983-033  | South Africa   | <i>American Mineralogist</i> <b>69</b> (1984), 979                                                                                     | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>119</b> (1990), 121 |
| Housleyite      | $\text{Pb}_6\text{CuTe}_4\text{O}_{18}(\text{OH})_2$                                                                         | A  | 2009-024  | USA            | <i>American Mineralogist</i> <b>95</b> (2010), 1337                                                                                    |                                                                                   |
| Howardevansite  | $\text{NaCu}^{2+}\text{Fe}^{3+}_2(\text{VO}_4)_3$                                                                            | A  | 1987-011  | El Salvador    | <i>American Mineralogist</i> <b>73</b> (1988), 181                                                                                     |                                                                                   |
| Howeite         | $\text{Na}(\text{Fe}^{2+}, \text{Fe}^{3+}, \text{Al}, \text{Mg})_{12}(\text{Si}_6\text{O}_{17})_2(\text{O}, \text{OH})_{10}$ | A  | 1964-017  | USA            | <i>American Mineralogist</i> <b>50</b> (1965), 278                                                                                     | <i>American Mineralogist</i> <b>59</b> (1974), 86                                 |
| Howlite         | $\text{Ca}_2\text{SiB}_5\text{O}_9(\text{OH})_5$                                                                             | G  | 1868      | Canada         | A System of Mineralogy, 5th ed. Wiley, New York (1868), 598                                                                            | <i>American Mineralogist</i> <b>73</b> (1988), 1138                               |
| Hrabákite       | $\text{Ni}_9\text{PbSbS}_8$                                                                                                  | A  | 2020-034  | Czech Republic | <i>Mineralogical Magazine</i> <b>85</b> (2021), 189                                                                                    |                                                                                   |
| Hsianghualite   | $\text{Li}_2\text{Ca}_3\text{Be}_3(\text{SiO}_4)_3\text{F}_2$                                                                | A  | 1997 s.p. | China          | <i>Ti-chih-yueh-k'an</i> <b>7</b> (1958), 35                                                                                           | <i>Doklady Akademii Nauk SSSR</i> <b>316</b> (1991), 624                          |
| Huanghoite-(Ce) | $\text{BaCe}(\text{CO}_3)_2\text{F}$                                                                                         | Rn | 1987 s.p. | China          | <i>Scientia Sinica</i> <b>10</b> (1961), 1007                                                                                          | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1993), 163                     |
| Huanghoite-(Nd) | $\text{BaNd}(\text{CO}_3)_2\text{F}$                                                                                         | A  | 2025-014  | China          | CNMNC Newsletter 85 - <i>Mineralogical Magazine</i> <b>89</b> (2025), 454; <i>European Journal of Mineralogy</i> <b>37</b> (2025), 337 |                                                                                   |
| Huangite        | $\text{Ca}_{0.5}\text{Al}_3(\text{SO}_4)_2(\text{OH})_6$                                                                     | A  | 1991-009  | Chile          | <i>American Mineralogist</i> <b>77</b> (1992), 1275                                                                                    | <i>Mineralogical Journal</i> <b>20</b> (1998), 1                                  |
| Huangshanite    | $\text{Fe}^{3+}\text{TaO}_4$                                                                                                 | A  | 2025-067  | China          | CNMNC Newsletter 89 - <i>Mineralogical Magazine</i> <b>90</b> (2026), 481; <i>European Journal of Mineralogy</i> <b>38</b> (2026), 117 |                                                                                   |
| Huanzalaite     | $\text{Mg}(\text{WO}_4)$                                                                                                     | A  | 2009-018  | Peru           | <i>Canadian Mineralogist</i> <b>48</b> (2010), 105                                                                                     |                                                                                   |
| Hubbardite      | $\text{Mg}(\text{H}_2\text{O})_6[(\text{UO}_2)_2\text{O}(\text{OH})(\text{SO}_4)]_2 \cdot 8\text{H}_2\text{O}$               | A  | 2025-041  | USA            | <i>Journal of Geosciences</i> <b>70</b> (2025), 151                                                                                    |                                                                                   |
| Hubeite         | $\text{Ca}_2\text{Mn}^{2+}\text{Fe}^{3+}\text{Si}_4\text{O}_{12}(\text{OH})(\text{H}_2\text{O}) \cdot \text{H}_2\text{O}$    | A  | 2000-022  | China          | <i>Mineralogical Record</i> <b>33</b> (2002), 465                                                                                      | <i>Canadian Mineralogist</i> <b>42</b> (2004), 825                                |
| Hübnerite       | $\text{Mn}^{2+}(\text{WO}_4)$                                                                                                | G  | 1865      | USA            | <i>Berg- und Hüttenmännische Zeitung</i> <b>24</b> (1865), 370                                                                         | <i>Minerals</i> <b>12</b> (2022), 42                                              |
| Huemulite       | $\text{Na}_4\text{MgV}^{5+}_{10}\text{O}_{28}(\text{H}_2\text{O})_{20} \cdot 4\text{H}_2\text{O}$                            | A  | 1965-012  | Argentina      | <i>American Mineralogist</i> <b>51</b> (1966), 1                                                                                       | <i>Canadian Mineralogist</i> <b>49</b> (2011), 849                                |
| Huenite         | $\text{Cu}_4(\text{MoO}_4)_3(\text{OH})_2$                                                                                   | A  | 2015-122  | Chile          | <i>Canadian Mineralogist</i> <b>57</b> (2019), 467                                                                                     |                                                                                   |
| Hügelite        | $\text{Pb}_2(\text{UO}_2)_3\text{O}_2(\text{AsO}_4)_2(\text{H}_2\text{O})_5$                                                 | G  | 1913      | Germany        | <i>Zeitschrift für Kristallographie, Mineralogie und Petrographie</i> <b>51</b> (1913), 278                                            | <i>Acta Crystallographica</i> <b>B77</b> (2021), 378                              |
| Hughesite       | $\text{Na}_3\text{AlV}_{10}\text{O}_{28}(\text{H}_2\text{O})_{18} \cdot 4\text{H}_2\text{O}$                                 | A  | 2009-035a | USA            | <i>Canadian Mineralogist</i> <b>49</b> (2011), 1253                                                                                    |                                                                                   |
| Huizingite-(Al) | $(\text{NH}_4)_9\text{Al}_3(\text{SO}_4)_8(\text{OH})_2(\text{H}_2\text{O})_4$                                               | A  | 2015-014  | USA            | <i>American Mineralogist</i> <b>101</b> (2016), 2095                                                                                   |                                                                                   |
| Hulsite         | $\text{Fe}^{2+}_2\text{Fe}^{3+}\text{O}_2(\text{BO}_3)$                                                                      | G  | 1908      | USA            | <i>American Journal of Science</i> <b>25</b> (1908), 323                                                                               | <i>Acta Crystallographica</i> <b>B76</b> (2020), 543                              |
| Humberstonite   | $\text{K}_3\text{Na}_7\text{Mg}_2(\text{SO}_4)_6(\text{NO}_3)_2(\text{H}_2\text{O})_6$                                       | A  | 1967-015  | Chile          | <i>American Mineralogist</i> <b>55</b> (1970), 1518                                                                                    | <i>Canadian Mineralogist</i> <b>32</b> (1994), 381                                |
| Humboldtine     | $\text{Fe}^{2+}(\text{C}_2\text{O}_4)(\text{H}_2\text{O})_2$                                                                 | G  | 1821      | Czech Republic | <i>Annales de Chimie et de Physique</i> <b>18</b> (1821), 207                                                                          | <i>Minerals</i> <b>11</b> (2021), 113                                             |

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| Humite              | $\text{Mg}_7(\text{SiO}_4)_3\text{F}_2$                                                                                                                                                | G  | 1813      | Italy              | Catalogue de la collection minéralogique particulière du Comte de Bournon. Juigné, London (1813), 32                                    | <i>American Mineralogist</i> <b>56</b> (1971), 1155            |
| Hummerite           | $\text{KMgV}^{5+}_5\text{O}_{14}(\text{H}_2\text{O})_8$                                                                                                                                | G  | 1951      | USA                | <i>American Mineralogist</i> <b>36</b> (1951), 326                                                                                      | <i>Canadian Mineralogist</i> <b>40</b> (2002), 1429            |
| Hunchunite          | $\text{Au}_2\text{Pb}$                                                                                                                                                                 | A  | 1991-033  | China              | <i>Acta Mineralogica Sinica</i> <b>12</b> (1992), 319                                                                                   |                                                                |
| Hundholmenite-(Y)   | $(\text{Y}, \text{REE}, \text{Ca}, \text{Na})_{15}(\text{Al}, \text{Fe}^{3+})\text{Ca}_x\text{As}^{3+}_{1-x}(\text{Si}, \text{As}^{5+})\text{Si}_6\text{B}_3(\text{O}, \text{F})_{48}$ | A  | 2006-005  | Norway             | <i>Mineralogical Magazine</i> <b>71</b> (2007), 179                                                                                     |                                                                |
| Hungchaoite         | $\text{Mg}(\text{H}_2\text{O})_5\text{B}_4\text{O}_5(\text{OH})_4 \cdot 2\text{H}_2\text{O}$                                                                                           | A  | 1967 s.p. | China              | <i>Scientia Sinica</i> <b>13</b> (1964), 525                                                                                            | <i>American Mineralogist</i> <b>62</b> (1977), 1135            |
| Huntingdonite       | $\text{Pb}_{19}\text{Sb}_{16}\text{As}_6\text{S}_{51}\text{Cl}_2$                                                                                                                      | A  | 2024-027  | Canada             | CNMNC Newsletter 81 - <i>Mineralogical Magazine</i> <b>88</b> (2024), 632; <i>European Journal of Mineralogy</i> <b>36</b> (2024), 917  |                                                                |
| Huntite             | $\text{CaMg}_3(\text{CO}_3)_4$                                                                                                                                                         | G  | 1953      | USA                | <i>American Mineralogist</i> <b>38</b> (1953), 4                                                                                        | <i>American Mineralogist</i> <b>71</b> (1986), 163             |
| Hureaulite          | $\text{Mn}^{2+}_5(\text{PO}_3\text{OH})_2(\text{PO}_4)_2(\text{H}_2\text{O})_4$                                                                                                        | Rn | 2007 s.p. | France             | <i>Annales de Chimie et de Physique</i> <b>3</b> (1825), 302                                                                            | <i>European Journal of Mineralogy</i> <b>28</b> (2016), 93     |
| Hurlbutite          | $\text{CaBe}_2(\text{PO}_4)_2$                                                                                                                                                         | G  | 1952      | USA                | <i>American Mineralogist</i> <b>37</b> (1952), 931                                                                                      | <i>Canadian Mineralogist</i> <b>52</b> (2014), 337             |
| Hutcheonite         | $\text{Ca}_3\text{Ti}_2(\text{SiAl}_2)\text{O}_{12}$                                                                                                                                   | A  | 2013-029  | Mexico (meteorite) | <i>American Mineralogist</i> <b>99</b> (2014), 667                                                                                      |                                                                |
| Hutchinsonite       | $\text{TiPbAs}_5\text{S}_9$                                                                                                                                                            | G  | 1905      | Switzerland        | <i>Mineralogical Magazine</i> <b>14</b> (1905), 72                                                                                      | <i>Zeitschrift für Kristallographie</i> <b>209</b> (1994), 475 |
| Huttonite           | $\text{Th}(\text{SiO}_4)$                                                                                                                                                              | G  | 1951      | New Zealand        | <i>American Mineralogist</i> <b>36</b> (1951), 60                                                                                       | <i>Journal of Solid State Chemistry</i> <b>221</b> (2015), 405 |
| Hyalotekite         | $\text{Ba}_4\text{Ca}_2[\text{Si}_8\text{B}_2(\text{SiB})\text{O}_{28}]\text{F}$                                                                                                       | G  | 1877      | Sweden             | <i>Geologiska Föreningens i Stockholm Förhandlingar</i> <b>3</b> (1877), 376                                                            | <i>Mineralogical Magazine</i> <b>62</b> (1998), 77             |
| Hyblerite           | $\text{Pb}_4\text{Bi}_2(\text{SO}_4)_2(\text{CO}_3)\text{O}_4$                                                                                                                         | A  | 2024-052  | Germany            | CNMNC Newsletter 82 - <i>Mineralogical Magazine</i> <b>88</b> (2024), 804; <i>European Journal of Mineralogy</i> <b>36</b> (2024), 1005 |                                                                |
| Hydrobasaluminite   | $\text{Al}_4(\text{SO}_4)(\text{OH})_{10} \cdot 15\text{H}_2\text{O}$                                                                                                                  | G  | 1948      | United Kingdom     | <i>Nature</i> <b>162</b> (1948), 565                                                                                                    | <i>Mineralogical Magazine</i> <b>43</b> (1980), 931            |
| Hydrobiotite        | $\text{K}(\text{Mg}, \text{Fe}^{2+})_6(\text{Si}, \text{Al})_8\text{O}_{20}(\text{OH})_4 \cdot n\text{H}_2\text{O}$                                                                    | Rd | 1983 s.p. | Czech Republic     | <i>Zeitschrift für Kristallographie und Mineralogie</i> <b>6</b> (1882), 321                                                            | <i>American Mineralogist</i> <b>68</b> (1983), 420             |
| Hydroboracite       | $\text{CaMg}[\text{B}_3\text{O}_4(\text{OH})_3]_2(\text{H}_2\text{O})_3$                                                                                                               | G  | 1834      | Kazakhstan         | <i>Annalen der Physik und Chemie</i> <b>31</b> (1834), 49                                                                               | <i>Physics and Chemistry of Minerals</i> <b>53</b> (2026), 6   |
| Hydrocalumite       | $\text{Ca}_4\text{Al}_2(\text{OH})_{12}\text{Cl}(\text{CO}_3)_{0.5} \cdot 5\text{H}_2\text{O}$                                                                                         | G  | 1934      | United Kingdom     | <i>Mineralogical Magazine</i> <b>23</b> (1934), 607                                                                                     | <i>Mineralogical Magazine</i> <b>90</b> (2026), 574            |
| Hydrocerussite      | $\text{Pb}_3(\text{CO}_3)_2(\text{OH})_2$                                                                                                                                              | G  | 1877      | Sweden             | <i>Geologiska Föreningens i Stockholm Förhandlingar</i> <b>3</b> (1877), 376                                                            | <i>Acta Crystallographica</i> <b>B74</b> (2018), 182           |
| Hydrochlorborite    | $\text{Ca}_2\text{B}_3\text{O}_3(\text{OH})_4 \cdot \text{BO}(\text{OH})_3\text{Cl} \cdot 7\text{H}_2\text{O}$                                                                         | G  | 1965      | China              | <i>Acta Geologica Sinica</i> <b>45</b> (1965), 209                                                                                      | <i>American Mineralogist</i> <b>63</b> (1978), 814             |
| Hydrodelhayelite    | $\text{KCa}_2(\text{Si}_7\text{Al})\text{O}_{17}(\text{OH})_2 \cdot 6\text{H}_2\text{O}$                                                                                               | A  | 1979-023  | Russia             | <i>New data on minerals of the USSR</i> <b>28</b> (1979), 172                                                                           |                                                                |
| Hydrodresserite     | $\text{BaAl}_2(\text{CO}_3)_2(\text{OH})_4(\text{H}_2\text{O})_2 \cdot 2\text{H}_2\text{O}$                                                                                            | A  | 1976-036  | Canada             | <i>Canadian Mineralogist</i> <b>15</b> (1977), 399                                                                                      | <i>Canadian Mineralogist</i> <b>20</b> (1982), 253             |
| Hydroglauberite     | $\text{Na}_{10}\text{Ca}_3(\text{SO}_4)_8 \cdot 6\text{H}_2\text{O}$                                                                                                                   | A  | 1968-026  | Uzbekistan         | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>98</b> (1969), 59                                                         |                                                                |
| Hydrohalite         | $\text{NaCl}(\text{H}_2\text{O})_2$                                                                                                                                                    | G  | 1847      | Austria            | Handbuch der Mineralogie. Vandenhoeck und Ruprecht, Gottingen (1847), 1458                                                              | <i>Acta Crystallographica</i> <b>B30</b> (1974), 2363          |
| Hydrohonessite      | $(\text{Ni}_{1-x}\text{Fe}^{3+}_x)(\text{SO}_4)_{x/2}(\text{OH})_2 \cdot n\text{H}_2\text{O}$ ( $x < 0.5$ , $n > 3x/2$ )                                                               | A  | 1980-037a | Australia          | <i>Mineralogical Magazine</i> <b>44</b> (1981), 333                                                                                     | <i>Mineralogical Magazine</i> <b>44</b> (1981), 339            |
| Hydrokenoelsmoreite | $\square_2\text{W}_2\text{O}_6(\text{H}_2\text{O})$                                                                                                                                    | Rd | 2010 s.p. | Australia          | <i>Canadian Mineralogist</i> <b>43</b> (2005), 1061                                                                                     | <i>Mineralogical Magazine</i> <b>80</b> (2016), 1195           |
| Hydrokenomicrolite  | $(\square, \text{H}_2\text{O})_2\text{Ta}_2(\text{O}, \text{OH})_6(\text{H}_2\text{O})$                                                                                                | A  | 2011-103  | Brazil             | <i>American Mineralogist</i> <b>98</b> (2013), 292                                                                                      |                                                                |

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| Hydrokenopyrochlore       | $(\square, \text{Sb}^{3+}, \text{Na})_2\text{Nb}_2\text{O}_6(\text{H}_2\text{O})$                                         | A  | 2017-005  | Madagascar                       | <i>European Journal of Mineralogy</i> <b>30</b> (2018), 869                                                               |                                                              |
| Hydrokenoralstonite       | $\square_2\text{Al}_2\text{F}_6(\text{H}_2\text{O})$                                                                      | Rn | 1871      | Denmark (Greenland)              | <i>American Journal of Science and Arts</i> <b>102</b> (1871), 30                                                         | <i>Canadian Mineralogist</i> <b>55</b> (2017), 115           |
| Hydromagnesite            | $\text{Mg}_5(\text{CO}_3)_4(\text{OH})_2(\text{H}_2\text{O})_4$                                                           | G  | 1828      | USA                              | Kongl. Vetenskaps-Academiens Handlingar for År 1827. Norstedt, Stockholm (1828), 17                                       | <i>Acta Crystallographica</i> <b>B33</b> (1977), 1273        |
| Hydrombobomkulite         | $\text{NiAl}_4(\text{NO}_3)_2(\text{OH})_{12} \cdot 14\text{H}_2\text{O}$                                                 | A  | 1979-079a | South Africa                     | <i>Annals of the Geological Survey of South Africa</i> <b>14</b> (1980), 1                                                |                                                              |
| Hydroniumjarosite         | $(\text{H}_3\text{O})\text{Fe}^{3+}_3(\text{SO}_4)_2(\text{OH})_6$                                                        | Rd | 1987 s.p. | Poland                           | <i>Bulletin de l'Academie Polonaise des Sciences, Serie des Sciences Geologiques et Geographiques</i> <b>8</b> (1960), 95 | <i>Mineralogical Magazine</i> <b>78</b> (2014), 535          |
| Hydroniumpharmacoalumite  | $(\text{H}_3\text{O})\text{Al}_4(\text{AsO}_4)_3(\text{OH})_4 \cdot 4.5\text{H}_2\text{O}$                                | A  | 2012-050  | Spain                            | <i>Journal of Mineralogy and Geochemistry</i> <b>192</b> (2015), 169                                                      |                                                              |
| Hydroniumpharmacosiderite | $(\text{H}_3\text{O})\text{Fe}^{3+}_4(\text{AsO}_4)_3(\text{OH})_4 \cdot 4\text{H}_2\text{O}$                             | A  | 2010-014  | United Kingdom                   | <i>Mineralogical Magazine</i> <b>74</b> (2010), 863                                                                       |                                                              |
| Hydronováčekite           | $\text{Mg}(\text{UO}_2)_2(\text{AsO}_4)_2 \cdot 12\text{H}_2\text{O}$                                                     | Rn | 2022 s.p. | Germany                          | <i>American Mineralogist</i> <b>36</b> (1951), 680                                                                        | <i>Canadian Mineralogist</i> <b>42</b> (2004), 1699          |
| Hydropascoite             | $\text{Ca}_3(\text{H}_2\text{O})_{20}(\text{V}_{10}\text{O}_{28}) \cdot 4\text{H}_2\text{O}$                              | A  | 2016-032  | USA                              | <i>Canadian Mineralogist</i> <b>55</b> (2017), 207                                                                        |                                                              |
| Hydroplumboelsmoreite     | $(\text{Pb}\square)(\text{W}_{1.33}\text{Fe}^{3+}_{0.67}\text{O}_6)(\text{H}_2\text{O})$                                  | Rd | 2021 s.p. | China                            | <i>Acta Geologica Sinica</i> <b>53</b> (1979), 46                                                                         | <i>Mineralogical Magazine</i> <b>85</b> (2021), 890          |
| Hydropyrochlore           | $(\text{H}_2\text{O}, \square)_2\text{Nb}_2(\text{O}, \text{OH})_6(\text{H}_2\text{O})$                                   | Rd | 2010 s.p. | Democratic Republic of the Congo | <i>American Mineralogist</i> <b>63</b> (1978), 528                                                                        | <i>Canadian Mineralogist</i> <b>48</b> (2010), 673           |
| Hydredmondite             | $[\text{Pb}_8\text{O}_2\text{Zn}(\text{OH})_6](\text{S}_2\text{O}_3)_4(\text{H}_2\text{O})_2$                             | A  | 2021-073  | USA                              | <i>Canadian Journal of Mineralogy and Petrology</i> <b>61</b> (2023), 189                                                 |                                                              |
| Hydroromarchite           | $\text{Sn}^{2+}_3\text{O}_2(\text{OH})_2$                                                                                 | A  | 1969-007  | Canada                           | <i>Canadian Mineralogist</i> <b>10</b> (1971), 916                                                                        | <i>European Journal of Mineralogy</i> <b>34</b> (2022), 563  |
| Hydroscarbroite           | $\text{Al}_{14}(\text{CO}_3)_3(\text{OH})_{36} \cdot n\text{H}_2\text{O}$                                                 | Q  | 1960      | United Kingdom                   | <i>Mineralogical Magazine</i> <b>32</b> (1960), 353                                                                       | <i>Journal of The Russell Society</i> <b>1</b> (1982), 9     |
| Hydrotalcite              | $\text{Mg}_6\text{Al}_2(\text{OH})_{16}(\text{CO}_3)(\text{H}_2\text{O})_4$                                               | A  | 2016 s.p. | Norway                           | <i>Journal für Praktische Chemie</i> <b>27</b> (1842), 375                                                                | <i>Mineralogical Magazine</i> <b>83</b> (2019), 269          |
| Hydroterskite             | $\text{Na}_2\text{ZrSi}_6\text{O}_{12}(\text{OH})_6$                                                                      | A  | 2015-042  | Canada                           | <i>Canadian Mineralogist</i> <b>53</b> (2015), 821                                                                        |                                                              |
| Hydrotungstite            | $\text{WO}_2(\text{OH})_2(\text{H}_2\text{O})$                                                                            | G  | 1944      | Bolivia                          | <i>American Mineralogist</i> <b>29</b> (1944), 192                                                                        | <i>Acta Crystallographica</i> <b>A64</b> (2008), C545        |
| Hydrowoodwardite          | $(\text{Cu}_{1-x}\text{Al}_x)(\text{SO}_4)_{x/2}(\text{OH})_2 \cdot n\text{H}_2\text{O}$ ( $x < 0.5$ , $n > 3x/2$ )       | A  | 1996-038  | Germany                          | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1999), 75                                                              |                                                              |
| Hydroxyapophyllite-(K)    | $\text{KCa}_4\text{Si}_8\text{O}_{20}(\text{OH}, \text{F})(\text{H}_2\text{O})_8$                                         | Rn | 1978 s.p. | USA                              | <i>American Mineralogist</i> <b>63</b> (1978), 196                                                                        | <i>Physics and Chemistry of Minerals</i> <b>51</b> (2024), 3 |
| Hydroxycalcimicrolite     | $\text{Ca}_{1.5}\text{Ta}_2\text{O}_6(\text{OH})$                                                                         | A  | 2013-073  | Brazil                           | <i>Mineralogical Magazine</i> <b>81</b> (2017), 555                                                                       |                                                              |
| Hydroxycalcipyrochlore    | $(\text{Ca}, \text{Na}, \text{U}, \square)_2(\text{Nb}, \text{Ti})_2\text{O}_6(\text{OH})$                                | A  | 2011-026  | China                            | <i>Acta Geologica Sinica</i> <b>88</b> (2014), 748                                                                        |                                                              |
| Hydroxycalcioroméite      | $(\text{Ca}, \text{Sb}^{3+})_2(\text{Sb}^{5+}, \text{Ti})_2\text{O}_6(\text{OH})$                                         | Rd | 2010 s.p. | Brazil                           | <i>Mineralogical Magazine</i> <b>11</b> (1895), 80                                                                        | <i>Minerals</i> <b>11</b> (2021), 1409                       |
| Hydroxycancrinite         | $(\text{Na}, \text{Ca}, \text{K})_8(\text{Al}_6\text{Si}_6\text{O}_{24})(\text{OH}, \text{CO}_3)_2(\text{H}_2\text{O})_2$ | A  | 1990-014  | Russia                           | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>121(1)</b> (1992), 100                                    | <i>European Journal of Mineralogy</i> <b>15</b> (2003), 589  |
| Hydroxyferromoméite       | $(\text{Fe}^{2+}_{1.5}\square_{0.5})\text{Sb}^{5+}_2\text{O}_6(\text{OH})$                                                | A  | 2016-006  | France                           | <i>European Journal of Mineralogy</i> <b>29</b> (2017), 307                                                               |                                                              |
| Hydroxykenoelsmoreite     | $(\square, \text{Pb})_2(\text{W}, \text{Fe}^{3+}, \text{Al})_2(\text{O}, \text{OH})_6(\text{OH})$                         | A  | 2016-056  | Burundi                          | <i>European Journal of Mineralogy</i> <b>29</b> (2017), 491                                                               |                                                              |

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|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|----|-----------|----------------------------------|---------------------------------------------------------------------------------------|------------------------------------------------------------------------|
| Hydroxykenomicrolite     | $(\square, \text{Na}, \text{Sb}^{3+})_2\text{Ta}_2\text{O}_6(\text{OH})$                                                                         | Rd | 2010 s.p. | Russia                           | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>110</b> (1981), 345     | <i>Canadian Mineralogist</i> <b>48</b> (2010), 673                     |
| Hydroxykenopyrochlore    | $(\square, \text{Ce}, \text{Ba})_2(\text{Nb}, \text{Ti})_2\text{O}_6(\text{OH}, \text{F})$                                                       | A  | 2017-030a | Brazil                           | <i>Canadian Mineralogist</i> <b>59</b> (2021), 589                                    |                                                                        |
| Hydroxylapatite          | $\text{Ca}_5(\text{PO}_4)_3(\text{OH})$                                                                                                          | Rn | 2010 s.p. | Switzerland                      | <i>Annales des Mines</i> <b>10</b> (1856), 65                                         | <i>American Mineralogist</i> <b>103</b> (2018), 1981                   |
| Hydroxylbastnäsite-(Ce)  | $\text{Ce}(\text{CO}_3)(\text{OH})$                                                                                                              | Rn | 2008 s.p. | Russia                           | <i>Doklady Akademii Nauk SSSR, Earth Science Sections</i> <b>159</b> (1964), 1048     | <i>American Mineralogist</i> <b>111</b> (2026), 961                    |
| Hydroxylbastnäsite-(La)  | $\text{La}(\text{CO}_3)(\text{OH})$                                                                                                              | A  | 2021-001  | Russia                           | <i>Mineralogical Magazine</i> <b>88</b> (2024), 755                                   |                                                                        |
| Hydroxylbastnäsite-(Nd)  | $\text{Nd}(\text{CO}_3)(\text{OH})$                                                                                                              | Rn | 2008 s.p. | Montenegro                       | <i>Mineralogical Magazine</i> <b>49</b> (1985), 717                                   | <i>Zeitschrift für Kristallographie</i> <b>226</b> (2011), 518         |
| Hydroxylbenyacarite      | $(\text{H}_2\text{O})_2\text{Mn}_2(\text{Ti}_2\text{Fe})(\text{PO}_4)_4[\text{O}(\text{OH})](\text{H}_2\text{O})_{10} \cdot 4\text{H}_2\text{O}$ | A  | 2023-079  | Argentina                        | <i>Mineralogical Magazine</i> <b>88</b> (2024), 327                                   |                                                                        |
| Hydroxylborite           | $\text{Mg}_3(\text{BO}_3)(\text{OH})_3$                                                                                                          | A  | 2005-054  | Russia                           | <i>Proceedings of the Russian Mineralogical Society</i> <b>136(1)</b> (2007), 69      |                                                                        |
| Hydroxylchondrodite      | $\text{Mg}_5(\text{SiO}_4)_2(\text{OH})_2$                                                                                                       | A  | 2010-019  | Russia                           | <i>Doklady Earth Sciences</i> <b>436</b> (2011), 230                                  | <i>Contributions to Mineralogy and Petrology</i> <b>169</b> (2015), 43 |
| Hydroxylclinochumite     | $\text{Mg}_9(\text{SiO}_4)_4(\text{OH})_2$                                                                                                       | A  | 1998-065  | Russia                           | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>128(5)</b> (1999), 64 | <i>Minerals</i> <b>13</b> (2023), 901                                  |
| Hydroxyledegrewite       | $\text{Ca}_9(\text{SiO}_4)_4(\text{OH})_2$                                                                                                       | A  | 2011-113  | Russia                           | <i>American Mineralogist</i> <b>97</b> (2012), 1998                                   |                                                                        |
| Hydroxylellestadite      | $\text{Ca}_5(\text{SiO}_4)_{1.5}(\text{SO}_4)_{1.5}(\text{OH})$                                                                                  | Rn | 2010 s.p. | USA                              | <i>American Mineralogist</i> <b>22</b> (1937), 977                                    | <i>American Mineralogist</i> <b>91</b> (2006), 1927                    |
| Hydroxylgugiaite         | $(\text{Ca}_3\square)_{\Sigma 4}(\text{Si}_{3.5}\text{Be}_{2.5})\text{O}_{11}(\text{OH})_3$                                                      | A  | 2016-009  | Norway                           | <i>Canadian Mineralogist</i> <b>55</b> (2017), 219                                    |                                                                        |
| Hydroxylhedyphane        | $\text{Ca}_2\text{Pb}_3(\text{AsO}_4)_3(\text{OH})$                                                                                              | A  | 2018-052  | Sweden                           | <i>European Journal of Mineralogy</i> <b>31</b> (2019), 1015                          |                                                                        |
| Hydroxylherderite        | $\text{CaBe}(\text{PO}_4)(\text{OH})$                                                                                                            | Rn | 2007 s.p. | USA                              | <i>American Journal of Science</i> <b>147</b> (1894), 329                             | <i>Mineralogical Magazine</i> <b>78</b> (2014), 723                    |
| Hydroxylpyromorphite     | $\text{Pb}_5(\text{PO}_4)_3(\text{OH})$                                                                                                          | A  | 2017-075  | USA                              | <i>American Mineralogist</i> <b>106</b> (2021), 922                                   |                                                                        |
| Hydroxylwagnerite        | $\text{Mg}_2(\text{PO}_4)(\text{OH})$                                                                                                            | A  | 2004-009  | Italy                            | <i>European Journal of Mineralogy</i> <b>26</b> (2014), 553                           |                                                                        |
| Hydroxymanganopyrochlore | $(\text{Mn}, \text{Th}, \text{Na}, \text{Ca}, \text{REE})_2(\text{Nb}, \text{Ti})_2\text{O}_6(\text{OH})$                                        | A  | 2012-005  | Germany                          | <i>Doklady Earth Sciences</i> <b>449</b> (2013), 342                                  |                                                                        |
| Hydroxymcglassonite-(K)  | $\text{KSr}_4\text{Si}_8\text{O}_{20}(\text{OH})(\text{H}_2\text{O})_8$                                                                          | A  | 2020-066  | South Africa                     | <i>American Mineralogist</i> <b>107</b> (2022), 1818                                  |                                                                        |
| Hydroxynatropyrochlore   | $(\text{Na}, \text{Ca}, \text{Ce})_2\text{Nb}_2\text{O}_6(\text{OH})$                                                                            | A  | 2017-074  | Russia                           | <i>Mineralogical Magazine</i> <b>83</b> (2019), 107                                   |                                                                        |
| Hydroxylplumbopyrochlore | $(\text{Pb}_{1.5}\square_{0.5})\text{Nb}_2\text{O}_6(\text{OH})$                                                                                 | A  | 2018-145  | Saudi Arabia                     | <i>Mineralogical Magazine</i> <b>84</b> (2020), 785                                   |                                                                        |
| Hydrozincite             | $\text{Zn}_5(\text{CO}_3)_2(\text{OH})_6$                                                                                                        | G  | 1853      | Austria                          | Das Mohs'sche Mineralsystem. Gerold, Wien (1853), 26                                  | <i>Acta Crystallographica</i> <b>17</b> (1964), 1051                   |
| Hylbrownite              | $\text{Na}_3\text{MgP}_3\text{O}_{10}(\text{H}_2\text{O})_{12}$                                                                                  | A  | 2010-054  | Australia                        | <i>Mineralogical Magazine</i> <b>77</b> (2013), 385                                   |                                                                        |
| Hypercinnabar            | $\text{HgS}$                                                                                                                                     | A  | 1977 s.p. | USA                              | <i>American Mineralogist</i> <b>63</b> (1978), 1143                                   |                                                                        |
| Hyršlite                 | $\text{Pb}_8\text{As}_{10}\text{Sb}_6\text{S}_{32}$                                                                                              | A  | 2016-097  | Peru                             | <i>European Journal of Mineralogy</i> <b>30</b> (2018), 1155                          |                                                                        |
| Hyttsjöite               | $\text{Pb}_{18}\text{Ba}_2\text{Ca}_5\text{Mn}^{2+}_2\text{Fe}^{3+}_2\text{Si}_{30}\text{O}_{90}\text{Cl}(\text{H}_2\text{O})_6$                 | A  | 1993-056  | Sweden                           | <i>American Mineralogist</i> <b>81</b> (1996), 743                                    |                                                                        |
| Ianbruceite              | $\text{Zn}_2(\text{AsO}_4)(\text{OH})(\text{H}_2\text{O}) \cdot 2\text{H}_2\text{O}$                                                             | A  | 2011-049  | Namibia                          | <i>Mineralogical Magazine</i> <b>76</b> (2012), 1119                                  |                                                                        |
| Iangreyite               | $\text{Ca}_2\text{Al}_7(\text{PO}_4)_2(\text{PO}_3\text{OH})_2(\text{OH}, \text{F})_{15}(\text{H}_2\text{O})_8$                                  | A  | 2009-087  | USA                              | <i>Mineralogical Magazine</i> <b>75</b> (2011), 327                                   |                                                                        |
| Ianthinite               | $\text{U}^{4+}_2(\text{UO}_2)_4\text{O}_6(\text{OH})_4(\text{H}_2\text{O})_4 \cdot 5\text{H}_2\text{O}$                                          | G  | 1925      | Democratic Republic of the Congo | <i>Natuurwetenschappelijk Tijdschrift</i> <b>7</b> (1925), 97                         | <i>American Mineralogist</i> <b>111</b> (2026), 491                    |
| Ice                      | $\text{H}_2\text{O}$                                                                                                                             | G  | ?         | unknown                          | original paper?                                                                       | <i>Acta Crystallographica</i> <b>B74</b> (2018), 196                   |
| Ichnusaite               | $\text{Th}(\text{MoO}_4)_2(\text{H}_2\text{O})_2 \cdot \text{H}_2\text{O}$                                                                       | A  | 2013-087  | Italy                            | <i>American Mineralogist</i> <b>99</b> (2014), 2089                                   |                                                                        |

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|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----------|---------------------|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Icosahedrite     | $\text{Al}_{63}\text{Cu}_{24}\text{Fe}_{13}$                                                                                                                                               | A  | 2010-042  | Russia (meteorite)  | <i>American Mineralogist</i> <b>96</b> (2011), 928                                    | <i>IUCrJ</i> <b>12</b> (2025), 511                                                  |
| Idaite           | $\text{Cu}_3\text{FeS}_4$                                                                                                                                                                  | G  | 1958      | Namibia             | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1958), 142                         | <i>European Journal of Mineralogy</i> <b>15</b> (2003), 1063                        |
| Idrialite        | $\text{C}_{22}\text{H}_{14}$                                                                                                                                                               | G  | 1832      | Slovenia            | <i>Annales de Chimie et de Physique</i> <b>50</b> (1832), 182                         | <i>American Mineralogist</i> <b>94</b> (2009), 1325                                 |
| Igelströmite     | $\text{Fe}^{3+}(\text{SbPb})\text{O}_4$                                                                                                                                                    | A  | 2021-035  | Sweden              | <i>European Journal of Mineralogy</i> <b>36</b> (2024), 311                           |                                                                                     |
| Ilmoriite-(Y)    | $\text{Y}_2(\text{SiO}_4)(\text{CO}_3)$                                                                                                                                                    | Rn | 1987 s.p. | Japan               | <i>Geological Survey of Japan</i> <b>39</b> (1968), 85                                | <i>Canadian Mineralogist</i> <b>34</b> (1996), 817                                  |
| Ikaite           | $\text{Ca}(\text{CO}_3)(\text{H}_2\text{O})_6$                                                                                                                                             | A  | 1962-005  | Denmark (Greenland) | <i>Naturens Verden</i> (1963), 168                                                    | <i>Scientific Reports</i> <b>10</b> (2020), 8141                                    |
| Ikorskyite       | $\text{KMn}^{3+}(\text{Si}_4\text{O}_{10})(\text{H}_2\text{O})_3$                                                                                                                          | A  | 2022-035  | Russia              | <i>Zapiski Rossiyskogo Mineralogicheskogo Obshchestva</i> <b>153(1)</b> (2024), 61    |                                                                                     |
| Ikranite         | $(\text{Na}, \text{H}_3\text{O})_{15}(\text{Ca}, \text{Mn}, \text{REE})_6\text{Fe}^{3+}_2\text{Zr}_3\text{Si}_{24}\text{O}_{66}(\text{O}, \text{OH})_6\text{Cl} \cdot n\text{H}_2\text{O}$ | A  | 2000-010  | Russia              | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>132(5)</b> (2003), 22 | <i>Crystallography Reports</i> <b>48</b> (2003), 717                                |
| Ikunolite        | $\text{Bi}_4\text{S}_3$                                                                                                                                                                    | A  | 1962 s.p. | Japan               | <i>Mineralogical Journal</i> <b>2</b> (1959), 397                                     | <i>Minerals</i> <b>11</b> (2021), 920                                               |
| Ilesite          | $\text{Mn}^{2+}(\text{SO}_4)(\text{H}_2\text{O})_4$                                                                                                                                        | G  | 1881      | USA                 | <i>American Chemical Journal</i> <b>3</b> (1881), 420                                 | <i>Acta Crystallographica</i> <b>E58</b> (2002), i121                               |
| Ilímaussite-(Ce) | $(\text{Ba}, \text{Na})_{10}\text{K}_3\text{Na}_{4.5}\text{Ce}_5(\text{Nb}, \text{Ti})_6\text{O}_6(\text{Si}_{12}\text{O}_{36})(\text{Si}_9\text{O}_{18})(\text{O}, \text{OH})_{24}$       | Rn | 1987 s.p. | Denmark (Greenland) | <i>Meddelelser om Grønland</i> <b>181(7)</b> (1968), 3                                | <i>Canadian Mineralogist</i> <b>42</b> (2004), 787                                  |
| Ilinskite        | $\text{NaCu}_5\text{O}_2(\text{Se}^{4+}\text{O}_3)_2\text{Cl}_3$                                                                                                                           | A  | 1996-027  | Russia              | <i>Doklady Akademii Nauk</i> <b>353</b> (1997), 641                                   | <i>Mineralogy and Petrology</i> <b>107</b> (2013), 235                              |
| Ilirneyite       | $\text{Mg}_{0.5}(\text{H}_2\text{O})_{4.5}[\text{ZnMn}^{3+}(\text{TeO}_3)_3]$                                                                                                              | A  | 2015-046  | Russia              | <i>Canadian Mineralogist</i> <b>56</b> (2018), 913                                    |                                                                                     |
| Illoqite-(Ce)    | $\text{Na}_2\text{NaBaCeZnSi}_6\text{O}_{17}$                                                                                                                                              | A  | 2021-021  | Denmark (Greenland) | <i>Mineralogical Magazine</i> <b>86</b> (2022), 141                                   |                                                                                     |
| Ilmajokite-(Ce)  | $\text{Na}_{11}\text{KBaCe}_2\text{Ti}_{12}\text{Si}_{37.5}\text{O}_{94}(\text{OH})_{30}(\text{H}_2\text{O})_{24} \cdot 5\text{H}_2\text{O}$                                               | Rn | 1971-027  | Russia              | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>101</b> (1972), 75      | <i>IUCrJ</i> <b>7</b> (2020), 121                                                   |
| Ilmenite         | $\text{Fe}^{2+}\text{Ti}^{4+}\text{O}_3$                                                                                                                                                   | G  | 1827      | Russia              | <i>Archiv für die Gesamte Naturlehre</i> <b>10</b> (1827), 1                          | <i>Physics and Chemistry of Minerals</i> <b>34</b> (2007), 307                      |
| Ilsemaninite     | $\text{Mo}_3\text{O}_8 \cdot n\text{H}_2\text{O}$ (?)                                                                                                                                      | Q  | 1871      | Austria             | <i>Neues Jahrbuch für Mineralogie, Geologie und Paläontologie</i> (1871), 566         | <i>American Mineralogist</i> <b>36</b> (1951), 609                                  |
| Illtisite        | $\text{HgAgSCI}$                                                                                                                                                                           | A  | 1994-031  | France              | <i>Archives des Sciences de Genève</i> <b>50</b> (1997), 1                            |                                                                                     |
| Ilvaite          | $\text{CaFe}^{3+}\text{Fe}^{2+}_2\text{O}(\text{Si}_2\text{O}_7)(\text{OH})$                                                                                                               | G  | 1811      | Italy               | <i>Vollständiges Handbuch der Oryktognosie, Erster Theil. Halle</i> (1811), 356       | <i>Physics and Chemistry of Minerals</i> <b>32</b> (2005), 388                      |
| Ilyukhinite      | $(\text{H}_3\text{O}, \text{Na})_{14}\text{Ca}_6\text{Mn}_2\text{Zr}_3\text{Si}_{26}\text{O}_{72}(\text{OH})_2 \cdot 3\text{H}_2\text{O}$                                                  | A  | 2015-065  | Russia              | <i>Zapiski Rossiyskogo Mineralogicheskogo Obshchestva</i> <b>145(4)</b> (2016), 44    | <i>Crystallography Reports</i> <b>62</b> (2017), 60                                 |
| Imandrite        | $\text{Na}_{12}\text{Ca}_3\text{Fe}^{3+}_2\text{Si}_{12}\text{O}_{36}$                                                                                                                     | A  | 1979-025  | Russia              | <i>Mineralogiceskij Zhurnal</i> <b>1</b> (1979), 89                                   | <i>Inorganic Chemistry</i> <b>60</b> (2021), 4563                                   |
| Imayoshiite      | $\text{Ca}_3\text{Al}(\text{CO}_3)[\text{B}(\text{OH})_4](\text{OH})_6(\text{H}_2\text{O})_{12}$                                                                                           | A  | 2013-069  | Japan               | <i>Mineralogical Magazine</i> <b>79</b> (2015), 413                                   | <i>Journal of Mineralogical and Petrological Sciences</i> <b>119</b> (2024), 231013 |
| Imhofite         | $\text{Ti}_{5.8}\text{As}_{15.4}\text{S}_{26}$                                                                                                                                             | A  | 1971 s.p. | Switzerland         | <i>Chimia</i> <b>19</b> (1965), 499                                                   | <i>Neues Jahrbuch für Mineralogie Abhandlungen</i> <b>165</b> (1993), 317           |
| Imiterite        | $\text{Ag}_2\text{HgS}_2$                                                                                                                                                                  | Rn | 1983-038  | Morocco             | <i>Bulletin de Minéralogie</i> <b>108</b> (1985), 457                                 |                                                                                     |

|                 |                                                                                                                                                  |    |           |              |                                                                                                                                        |                                                                                   |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------|----|-----------|--------------|----------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| Imogolite       | $\text{Al}_2\text{SiO}_3(\text{OH})_4$                                                                                                           | Rd | 1987 s.p. | Japan        | <i>Soil Science and Plant Nutrition</i> <b>8(3)</b> (1962), 114                                                                        | <i>Mineralogical Magazine</i> <b>51</b> (1987), 327                               |
| Inaglyite       | $\text{PbCu}_3\text{Ir}_8\text{S}_{16}$                                                                                                          | A  | 1983-054  | Russia       | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>113</b> (1984), 712                                                      |                                                                                   |
| Incomsartorite  | $\text{Ti}_6\text{Pb}_{144}\text{As}_{246}\text{S}_{516}$                                                                                        | A  | 2016-035  | Switzerland  | CNMNC Newsletter 33 - <i>Mineralogical Magazine</i> <b>80</b> (2016), 1135                                                             |                                                                                   |
| Inderborite     | $\text{CaMg}[\text{B}_3\text{O}_3(\text{OH})_5]_2(\text{H}_2\text{O})_4 \cdot 2\text{H}_2\text{O}$                                               | G  | 1941      | Kazakhstan   | <i>Doklady Akademii Nauk SSSR</i> <b>33</b> (1941), 254                                                                                | <i>Mineralogical Magazine</i> <b>88</b> (2024), 473                               |
| Inderite        | $\text{Mg}[\text{B}_3\text{O}_3(\text{OH})_5](\text{H}_2\text{O})_4 \cdot \text{H}_2\text{O}$                                                    | A  | 1962 s.p. | Kazakhstan   | <i>Zapiski Rossiyskogo Mineralogicheskogo Obshchestva</i> <b>66</b> (1937), 315                                                        | <i>Physics and Chemistry of Minerals</i> <b>51</b> (2024), 21                     |
| Indialite       | $\text{Mg}_2\text{Al}_3(\text{Si}_5\text{AlO}_{18})$                                                                                             | G  | 1954      | India        | <i>Proceedings of the Japan Academy</i> <b>30</b> (1954), 746                                                                          | <i>Crystallography Reports</i> <b>57</b> (2012), 759                              |
| Indigirite      | $\text{Mg}_2\text{Al}_2(\text{CO}_3)_4(\text{OH})_2 \cdot 15\text{H}_2\text{O}$                                                                  | A  | 1971-012  | Russia       | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>100</b> (1971), 178                                                      |                                                                                   |
| Indite          | $\text{FeIn}_2\text{S}_4$                                                                                                                        | A  | 1967 s.p. | Russia       | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>92</b> (1963), 445                                                       | <i>Zeitschrift für Anorganische und Allgemeine Chemie</i> <b>646</b> (2020), 1091 |
| Indium          | In                                                                                                                                               | A  | 1968 s.p. | Russia       | <i>Geochemistry, mineralogy, and genetic types of deposits of rare elements</i> <b>2</b> (1964), 568                                   |                                                                                   |
| Inesite         | $\text{Ca}_2\text{Mn}^{2+}_7\text{Si}_{10}\text{O}_{28}(\text{OH})_2(\text{H}_2\text{O})_5$                                                      | G  | 1887      | Germany      | <i>Zeitschrift der Deutschen Geologischen Gesellschaft</i> <b>39</b> (1887), 829                                                       | <i>American Mineralogist</i> <b>63</b> (1978), 563                                |
| Ingersonite     | $\text{Ca}_3\text{Mn}^{2+}\text{Sb}^{5+}_4\text{O}_{14}$                                                                                         | A  | 1986-021  | Sweden       | <i>American Mineralogist</i> <b>73</b> (1988), 405                                                                                     | <i>American Mineralogist</i> <b>92</b> (2007), 947                                |
| Ingodite        | $\text{Bi}_2\text{TeS}$                                                                                                                          | A  | 1980-045  | Russia       | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>110</b> (1981), 594                                                      | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>113</b> (1984), 31  |
| Innelite        | $\text{Ba}_4\text{Ti}_2\text{Na}(\text{NaMn}^{2+})\text{Ti}(\text{Si}_2\text{O}_7)_2[(\text{SO}_4)(\text{PO}_4)]\text{O}_2[\text{O}(\text{OH})]$ | Rd | 2016 s.p. | Russia       | <i>Doklady Akademii Nauk SSSR</i> <b>141</b> (1961), 1198                                                                              | <i>Mineralogical Magazine</i> <b>89</b> (2025), 285                               |
| Innsbruckite    | $\text{Mn}_{33}(\text{Si}_2\text{O}_5)_{14}(\text{OH})_{38}$                                                                                     | A  | 2013-038  | Austria      | <i>Mineralogical Magazine</i> <b>78</b> (2014), 1613                                                                                   |                                                                                   |
| Insizwaite      | $\text{PtBi}_2$                                                                                                                                  | A  | 1971-031  | South Africa | <i>Mineralogical Magazine</i> <b>38</b> (1972), 794                                                                                    | <i>Zeitschrift für Anorganische und Allgemeine Chemie</i> <b>620</b> (1994), 393  |
| Interliveingite | $\text{AgPb}_{18}\text{As}_{25}\text{S}_{56}$                                                                                                    | A  | 2022-144  | Switzerland  | CNMNC Newsletter 72 - <i>Mineralogical Magazine</i> <b>87</b> (2023), 512; <i>European Journal of Mineralogy</i> <b>35</b> (2023), 285 |                                                                                   |
| Intersilite     | $\text{Na}_6\text{Mn}(\text{Ti},\text{Nb})\text{Si}_{10}(\text{O},\text{OH})_{28}(\text{H}_2\text{O})_4$                                         | A  | 1995-033  | Russia       | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>125(4)</b> (1996), 79                                                  | <i>Crystallography Reports</i> <b>41</b> (1996) 239                               |
| Inyoite         | $\text{CaB}_3\text{O}_3(\text{OH})_5(\text{H}_2\text{O})_3 \cdot \text{H}_2\text{O}$                                                             | G  | 1914      | USA          | <i>Journal of the Washington Academy of Sciences</i> <b>4</b> (1914), 354                                                              | <i>Physics and Chemistry of Minerals</i> <b>49</b> (2022), 4                      |
| Iodargyrite     | AgI                                                                                                                                              | A  | 1962 s.p. | Mexico       | Cours de Minéralogie (Histoire naturelle). Masson, Paris (1859), 386                                                                   | <i>Canadian Mineralogist</i> <b>35</b> (1997), 23                                 |
| Iowaite         | $\text{Mg}_6\text{Fe}^{3+}_2(\text{OH})_{16}\text{Cl}_2 \cdot 4\text{H}_2\text{O}$                                                               | A  | 1967-002  | USA          | <i>American Mineralogist</i> <b>52</b> (1967), 1261                                                                                    | <i>Applied Clay Science</i> <b>243</b> (2023), 107070                             |
| Iquiqueite      | $\text{K}_3\text{Na}_4\text{Mg}(\text{CrO}_4)\text{B}_{24}\text{O}_{39}(\text{OH}) \cdot 12\text{H}_2\text{O}$                                   | A  | 1984-019  | Chile        | <i>American Mineralogist</i> <b>71</b> (1986), 830                                                                                     |                                                                                   |

|                  |                                                                                           |    |           |                  |                                                                                                                                        |                                                                                             |
|------------------|-------------------------------------------------------------------------------------------|----|-----------|------------------|----------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| Iranite          | $\text{CuPb}_{10}(\text{CrO}_4)_6(\text{SiO}_4)_2(\text{OH})_2$                           | A  | 1980 s.p. | Iran             | <i>Bulletin de la Société Française de Minéralogie et de Cristallographie</i> <b>86</b> (1963), 133                                    | <i>Acta Crystallographica</i> <b>C63</b> (2007), i122                                       |
| Iraqite-(La)     | $\text{KCa}_2(\text{La,Ce,Th})\text{Si}_8\text{O}_{20}$                                   | A  | 1973-041  | Iraq             | <i>Mineralogical Magazine</i> <b>40</b> (1976), 441                                                                                    |                                                                                             |
| Irarsite         | $\text{IrAsS}$                                                                            | A  | 1966-028  | South Africa     | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>95</b> (1966), 700                                                       | <i>Mineralium Deposita</i> <b>22</b> (1987), 178                                            |
| Irhtemite        | $\text{Ca}_4\text{Mg}(\text{AsO}_4)_2(\text{AsO}_3\text{OH})_2 \cdot 4\text{H}_2\text{O}$ | A  | 1971-034  | Morocco          | <i>Bulletin de la Société Française de Minéralogie et de Cristallographie</i> <b>95</b> (1972), 365                                    |                                                                                             |
| Iridarsenite     | $\text{IrAs}_2$                                                                           | A  | 1973-021  | Papua New Guinea | <i>Canadian Mineralogist</i> <b>12</b> (1974), 280                                                                                     |                                                                                             |
| Iridium          | $\text{Ir}$                                                                               | Rd | 1991 s.p. | Canada           | <i>Philosophical Transactions of the Royal Society of London</i> <b>94</b> (1804), 411                                                 | <i>Canadian Mineralogist</i> <b>29</b> (1991), 231                                          |
| Iriginite        | $(\text{UO}_2)\text{Mo}^{6+}_2\text{O}_7(\text{H}_2\text{O})_2 \cdot \text{H}_2\text{O}$  | G  | 1957      | Russia           | Mineraly Urana Spravochnik (Uranium Minerals Handbook). Moscow (1957)                                                                  | <i>Canadian Mineralogist</i> <b>38</b> (2000), 847                                          |
| Irinarassite     | $\text{Ca}_3\text{Sn}_2(\text{SiAl}_2)\text{O}_{12}$                                      | A  | 2010-073  | Russia           | <i>Mineralogical Magazine</i> <b>77</b> (2013), 2857                                                                                   |                                                                                             |
| Iron             | $\text{Fe}$                                                                               | G  | ?         | unknown          | original paper?                                                                                                                        |                                                                                             |
| Irtyshte         | $\text{Na}_2\text{Ta}_4\text{O}_{11}$                                                     | A  | 1984-025  | Kazakhstan       | <i>Mineralogicheskij Zhurnal</i> <b>7(3)</b> (1985), 87                                                                                |                                                                                             |
| Iseite           | $\text{Mn}^{2+}_2\text{Mo}^{4+}_3\text{O}_8$                                              | A  | 2012-020  | Japan            | <i>Journal of Mineralogical and Petrological Sciences</i> <b>108</b> (2013), 37                                                        |                                                                                             |
| Ishiharaite      | $(\text{Cu,Ga,Fe,In,Zn})\text{S}$                                                         | A  | 2013-119  | Argentina        | <i>Canadian Mineralogist</i> <b>52</b> (2014), 969                                                                                     |                                                                                             |
| Ishikawaite      | $(\text{U,Fe,Y})\text{NbO}_4$                                                             | Q  | 2022 s.p. | Japan            | <i>Journal of the Chemical Society of Japan</i> <b>43</b> (1922), 648                                                                  | <i>Mineralogical Magazine</i> <b>63</b> (1999), 27                                          |
| Iskandarovite    | $\text{Sb}_6\text{O}_7(\text{SO}_4)_2$                                                    | A  | 2022-034  | Tajikistan       | CNMNC Newsletter 68 - <i>Mineralogical Magazine</i> <b>86</b> (2022), 854; <i>European Journal of Mineralogy</i> <b>34</b> (2022), 385 | <a href="https://doi.org/10.1180/mgm.2026.10205">https://doi.org/10.1180/mgm.2026.10205</a> |
| Isoclasite       | $\text{Ca}_2(\text{PO}_4)(\text{OH}) \cdot 2\text{H}_2\text{O}$                           | Q  | 1870      | Czech Republic   | <i>Journal für Praktische Chemie, Neue Folge</i> <b>2</b> (1870), 125                                                                  |                                                                                             |
| Isocubanite      | $\text{CuFe}_2\text{S}_3$                                                                 | A  | 1983 s.p. | Pacific Ocean    | <i>Mineralogical Magazine</i> <b>52</b> (1988), 509                                                                                    | <i>Physics and Chemistry of Minerals</i> <b>51</b> (2024), 5                                |
| Isoferroplatinum | $\text{Pt}_3\text{Fe}$                                                                    | A  | 1974-012a | Canada           | <i>Canadian Mineralogist</i> <b>13</b> (1975), 117                                                                                     | <i>Doklady Akademii Nauk, Earth Science Section</i> <b>407</b> (2006), 335                  |
| Isokite          | $\text{CaMg}(\text{PO}_4)\text{F}$                                                        | G  | 1955      | Zambia           | <i>Mineralogical Magazine</i> <b>30</b> (1955), 681                                                                                    | <i>Acta Crystallographica</i> <b>C63</b> (2007), i89                                        |
| Isolueshite      | $\text{NaNbO}_3$                                                                          | A  | 1995-024  | Russia           | <i>European Journal of Mineralogy</i> <b>9</b> (1997), 483                                                                             | <i>Neues Jahrbuch für Mineralogie Abhandlungen</i> <b>194</b> (2017), 165                   |
| Isomertieite     | $\text{Pd}_{11}\text{Sb}_2\text{As}_2$                                                    | A  | 1973-057  | Brazil           | <i>Mineralogical Magazine</i> <b>39</b> (1974), 528                                                                                    | <i>Canadian Mineralogist</i> <b>54</b> (2016), 511                                          |
| Isovite          | $(\text{Cr,Fe})_{23}\text{C}_6$                                                           | A  | 1996-039  | Russia           | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>127(5)</b> (1998), 26                                                  | <i>Acta Crystallographica</i> <b>B43</b> (1987), 230                                        |
| Isselite         | $\text{Cu}_6(\text{SO}_4)(\text{OH})_{10}(\text{H}_2\text{O})_4 \cdot \text{H}_2\text{O}$ | A  | 2018-139  | Italy            | <i>Mineralogical Magazine</i> <b>84</b> (2020), 653                                                                                    |                                                                                             |
| Itelmenite       | $\text{Na}_2\text{CuMg}_2(\text{SO}_4)_4$                                                 | A  | 2015-047  | Russia           | <i>Mineralogical Magazine</i> <b>82</b> (2018), 1233                                                                                   |                                                                                             |
| Itoigawaite      | $\text{SrAl}_2\text{Si}_2\text{O}_7(\text{OH})_2(\text{H}_2\text{O})$                     | A  | 1998-034  | Japan            | <i>Mineralogical Magazine</i> <b>63</b> (1999), 909                                                                                    |                                                                                             |
| Itoite           | $\text{Pb}_3\text{GeO}_2(\text{SO}_4)_2(\text{OH})_2$                                     | A  | 1962 s.p. | Namibia          | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1960), 132                                                                          | <i>Neues Jahrbuch für Mineralogie Abhandlungen</i> <b>123</b> (1975), 160                   |
| Itsiite          | $\text{Ba}_4\text{Ca}_2[\text{Si}_8\text{B}_4\text{O}_{28}]\square$                       | A  | 2013-085  | Canada           | <i>Canadian Mineralogist</i> <b>52</b> (2014), 401                                                                                     |                                                                                             |
| Ivanyukite-Cu    | $\text{Cu}[\text{Ti}_4\text{O}_2(\text{OH})_2(\text{SiO}_4)_3](\text{H}_2\text{O})_7$     | A  | 2007-043  | Russia           | <i>American Mineralogist</i> <b>94</b> (2009), 1450                                                                                    | <i>Mineralogical Magazine</i> <b>85</b> (2021), 607                                         |
| Ivanyukite-K     | $\text{K}_2[\text{Ti}_4\text{O}_2(\text{OH})_2(\text{SiO}_4)_3](\text{H}_2\text{O})_9$    | A  | 2007-042  | Russia           | <i>American Mineralogist</i> <b>94</b> (2009), 1450                                                                                    | <i>Mineralogical Magazine</i> <b>85</b> (2021), 607                                         |

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| Ivanyukite-Na                | $\text{Na}_2[\text{Ti}_4\text{O}_2(\text{OH})_2(\text{SiO}_4)_3](\text{H}_2\text{O})_6$                                             | A  | 2007-041  | Russia             | <i>American Mineralogist</i> <b>94</b> (2009), 1450                                                                                    | <i>Mineralogical Magazine</i> <b>85</b> (2021), 607                                         |
| Ivsite                       | $\text{Na}_3\text{H}(\text{SO}_4)_2$                                                                                                | A  | 2013-138  | Russia             | <i>Doklady Earth Sciences</i> <b>468</b> (2016), 632                                                                                   |                                                                                             |
| Iwashiroite-(Y)              | $\text{YTao}_4$                                                                                                                     | A  | 2003-053  | Japan              | <i>Journal of Mineralogical and Petrological Sciences</i> <b>101</b> (2006), 170                                                       | <i>Acta Crystallographica</i> <b>23</b> (1967), 939                                         |
| Iwateite                     | $\text{Na}_2\text{BaMn}(\text{PO}_4)_2$                                                                                             | A  | 2013-034  | Japan              | <i>Journal of Mineralogical and Petrological Sciences</i> <b>109</b> (2014), 34                                                        | <i>Zeitschrift für Kristallographie</i> <b>235</b> (2020), 433                              |
| Ixiolite-(Fe <sup>2+</sup> ) | $(\text{Ta}_{2/3}\text{Fe}^{2+}_{1/3})\text{O}_2$                                                                                   | Rd | 2022 s.p. | Finland            | <i>Annalen der Physik und Chemie</i> <b>11</b> (1857), 625                                                                             | <i>American Mineralogist</i> <b>48</b> (1963), 961                                          |
| Ixiolite-(Mn <sup>2+</sup> ) | $(\text{Ta}_{2/3}\text{Mn}^{2+}_{1/3})\text{O}_2$                                                                                   | Rd | 2022 s.p. | Finland            | <i>Annalen der Physik und Chemie</i> <b>11</b> (1857), 625                                                                             | <i>Canadian Mineralogist</i> <b>14</b> (1976), 540                                          |
| Ixiolite-(Sc)                | $(\text{Ta}_{0.5}\text{Sc}_{0.5})\text{O}_2$                                                                                        | A  | 2025-054  | Norway             | CNMNC Newsletter 88 - <i>Mineralogical Magazine</i> <b>90</b> (2026), 192; <i>European Journal of Mineralogy</i> <b>37</b> (2025), 921 | <a href="https://doi.org/10.1180/mgm.2026.10208">https://doi.org/10.1180/mgm.2026.10208</a> |
| Iyoite                       | $\text{MnCuCl}(\text{OH})_3$                                                                                                        | A  | 2013-130  | Japan              | <i>Mineralogical Magazine</i> <b>81</b> (2017), 485                                                                                    |                                                                                             |
| Izoklakeite                  | $\text{Pb}_{26.4}(\text{Cu},\text{Fe})_2(\text{Sb},\text{Bi})_{19.6}\text{S}_{57}$                                                  | A  | 1983-065  | Canada             | <i>Canadian Mineralogist</i> <b>24</b> (1986), 1                                                                                       | <i>American Mineralogist</i> <b>72</b> (1987), 821                                          |
| Jáchymovite                  | $(\text{UO}_2)_8(\text{SO}_4)(\text{OH})_{14} \cdot 13\text{H}_2\text{O}$                                                           | A  | 1994-025  | Czech Republic     | <i>Neues Jahrbuch für Mineralogie Abhandlungen</i> <b>170</b> (1996), 155                                                              |                                                                                             |
| Jacobsite                    | $\text{Mn}^{2+}\text{Fe}^{3+}_2\text{O}_4$                                                                                          | A  | 1982 s.p. | Sweden             | <i>Comptes Rendus Hebdomadaires des Séances de l'Académie des Sciences</i> <b>69</b> (1869), 168                                       | <i>European Journal of Mineralogy</i> <b>9</b> (1997), 31                                   |
| Jacquiesdietrichite          | $\text{Cu}_2\text{BO}(\text{OH})_5$                                                                                                 | A  | 2003-012  | Morocco            | <i>European Journal of Mineralogy</i> <b>16</b> (2004), 361                                                                            |                                                                                             |
| Jacutingaite                 | $\text{Pt}_2\text{HgSe}_3$                                                                                                          | A  | 2010-078  | Brazil             | <i>Canadian Mineralogist</i> <b>50</b> (2012), 431                                                                                     | <i>Canadian Mineralogist</i> <b>50</b> (2012), 441                                          |
| Jadarite                     | $\text{LiNaB}_3\text{SiO}_7(\text{OH})$                                                                                             | A  | 2006-036  | Serbia             | <i>European Journal of Mineralogy</i> <b>19</b> (2007), 575                                                                            | <i>European Journal of Mineralogy</i> <b>36</b> (2024), 139                                 |
| Jadeite                      | $\text{NaAlSi}_2\text{O}_6$                                                                                                         | A  | 1988 s.p. | Myanmar            | <i>Comptes Rendus Hebdomadaires des Séances de l'Académie des Sciences</i> <b>56</b> (1863), 861                                       | <i>Canadian Mineralogist</i> <b>46</b> (2008), 1593                                         |
| Jaffeite                     | $\text{Ca}_6\text{Si}_2\text{O}_7(\text{OH})_6$                                                                                     | A  | 1987-056  | Namibia            | <i>American Mineralogist</i> <b>74</b> (1989), 1203                                                                                    | <i>Crystallography Reports</i> <b>38</b> (1993), 464                                        |
| Jagoite                      | $\text{Pb}_{11}\text{Fe}^{3+}_5\text{Si}_{12}\text{O}_{41}\text{Cl}_3$                                                              | G  | 1957      | Sweden             | <i>Arkiv för Mineralogi och Geologi</i> <b>2</b> (1957), 315                                                                           | <i>Mineralogical Magazine</i> <b>89</b> (2025), 830                                         |
| Jagowerite                   | $\text{BaAl}_2(\text{PO}_4)_2(\text{OH})_2$                                                                                         | A  | 1973-001  | Canada             | <i>Canadian Mineralogist</i> <b>12</b> (1973), 135                                                                                     | <i>American Mineralogist</i> <b>59</b> (1974), 291                                          |
| Jagüéite                     | $\text{Cu}_2\text{Pd}_3\text{Se}_4$                                                                                                 | Rn | 2002-060  | Argentina          | <i>Canadian Mineralogist</i> <b>42</b> (2004), 1745                                                                                    | <i>Canadian Mineralogist</i> <b>44</b> (2006), 497                                          |
| Jahnsite-(CaFeMg)            | $\text{CaFe}^{2+}\text{Mg}_2\text{Fe}^{3+}_2(\text{PO}_4)_4(\text{OH})_2(\text{H}_2\text{O})_8$                                     | A  | 2013-111  | Australia          | <i>European Journal of Mineralogy</i> <b>28</b> (2016), 991                                                                            |                                                                                             |
| Jahnsite-(CaMnFe)            | $\text{CaMn}^{2+}\text{Fe}^{2+}_2\text{Fe}^{3+}_2(\text{PO}_4)_4(\text{OH})_2(\text{H}_2\text{O})_8$                                | Rd | 1978 s.p. | USA                | <i>Mineralogical Magazine</i> <b>42</b> (1978), 309                                                                                    |                                                                                             |
| Jahnsite-(CaMnMg)            | $\text{CaMn}^{2+}\text{Mg}_2\text{Fe}^{3+}_2(\text{PO}_4)_4(\text{OH})_2(\text{H}_2\text{O})_8$                                     | Rd | 1973-022  | USA                | <i>American Mineralogist</i> <b>59</b> (1974), 48                                                                                      | <i>American Mineralogist</i> <b>59</b> (1974), 964                                          |
| Jahnsite-(CaMnMn)            | $\text{CaMn}^{2+}\text{Mn}^{2+}_2\text{Fe}^{3+}_2(\text{PO}_4)_4(\text{OH})_2(\text{H}_2\text{O})_8$                                | A  | 1987-020a | Portugal           | <i>American Mineralogist</i> <b>75</b> (1990), 401                                                                                     |                                                                                             |
| Jahnsite-(CaMnZn)            | $\text{CaMn}^{2+}\text{Zn}_2\text{Fe}^{3+}_2(\text{PO}_4)_4(\text{OH})_2(\text{H}_2\text{O})_8$                                     | A  | 2019-073  | Germany            | <i>Mineralogical Magazine</i> <b>84</b> (2020), 547                                                                                    |                                                                                             |
| Jahnsite-(MnMnFe)            | $\text{Mn}^{2+}\text{Mn}^{2+}\text{Fe}^{2+}_2\text{Fe}^{3+}_2(\text{PO}_4)_4(\text{OH})_2(\text{H}_2\text{O})_8$                    | A  | 2018-096  | Italy              | <i>Canadian Mineralogist</i> <b>57</b> (2019), 225                                                                                     |                                                                                             |
| Jahnsite-(MnMnMg)            | $\text{Mn}^{2+}\text{Mn}^{2+}\text{Mg}_2\text{Fe}^{3+}_2(\text{PO}_4)_4(\text{OH})_2(\text{H}_2\text{O})_8$                         | A  | 2017-118  | Brazil             | <i>Canadian Mineralogist</i> <b>57</b> (2019), 363                                                                                     |                                                                                             |
| Jahnsite-(MnMnMn)            | $\text{Mn}^{2+}\text{Mn}^{2+}\text{Mn}^{2+}_2\text{Fe}^{3+}_2(\text{PO}_4)_4(\text{OH})_2(\text{H}_2\text{O})_8$                    | Rd | 1978 s.p. | USA                | <i>Mineralogical Magazine</i> <b>42</b> (1978), 309                                                                                    |                                                                                             |
| Jahnsite-(MnMnZn)            | $\text{Mn}^{2+}\text{Mn}^{2+}\text{Zn}_2\text{Fe}^{3+}_2(\text{PO}_4)_4(\text{OH})_2(\text{H}_2\text{O})_8$                         | A  | 2017-113  | Portugal           | <i>European Journal of Mineralogy</i> <b>31</b> (2019), 167                                                                            |                                                                                             |
| Jahnsite-(NaFeMg)            | $\text{NaFe}^{3+}\text{Mg}_2\text{Fe}^{3+}_2(\text{PO}_4)_4(\text{OH})_2(\text{H}_2\text{O})_8$                                     | A  | 2007-016  | USA                | <i>American Mineralogist</i> <b>93</b> (2008), 940                                                                                     |                                                                                             |
| Jahnsite-(NaMnMg)            | $(\text{Na},\text{Ca})\text{Mn}^{2+}(\text{Mg},\text{Fe}^{3+})_2\text{Fe}^{3+}_2(\text{PO}_4)_4(\text{OH})_2(\text{H}_2\text{O})_8$ | A  | 2018-017  | Brazil / Australia | <i>Canadian Mineralogist</i> <b>56</b> (2018), 871                                                                                     |                                                                                             |

|                   |                                                                                                                                            |    |           |                     |                                                                                                                 |                                                                |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------|----|-----------|---------------------|-----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|
| Jahnsite-(NaMnMn) | $\text{NaMn}^{2+}(\text{Mn}^{2+}\text{Fe}^{3+})\text{Fe}^{3+}_2(\text{PO}_4)_4(\text{OH})_2(\text{H}_2\text{O})_8$                         | A  | 2019-051  | Australia           | <i>Canadian Journal of Mineralogy and Petrology</i> <b>61</b> (2023), 1163                                      |                                                                |
| Jaipurite         | CoS                                                                                                                                        | Q  | 1880      | India               | <i>Doklady Akademii Nauk SSSR</i> <b>303</b> (1988), 1206                                                       |                                                                |
| Jakobssonite      | $\text{CaAlF}_5$                                                                                                                           | A  | 2011-036  | Iceland             | <i>Mineralogical Magazine</i> <b>76</b> (2012), 751                                                             |                                                                |
| Jalpaite          | $\text{Ag}_3\text{CuS}_2$                                                                                                                  | G  | 1858 ?    | Mexico              | <i>Berg- und Hüttenmannische Zeitung</i> <b>17</b> (1858), 85                                                   | <i>Australian Journal of Chemistry</i> <b>45</b> (1992), 1441  |
| Jamborite         | $\text{Ni}^{2+}_{1-x}\text{Co}^{3+}_x(\text{OH})_{2-x}(\text{SO}_4)_x \cdot n\text{H}_2\text{O}$ [ $x \leq \frac{1}{3}$ ; $n \leq (1-x)$ ] | A  | 2014 s.p. | Italy               | <i>American Mineralogist</i> <b>58</b> (1973), 835                                                              | <i>Canadian Mineralogist</i> <b>53</b> (2015), 791             |
| Jamesite          | $\text{Pb}_2\text{ZnFe}^{3+}_2(\text{Fe}^{3+}, \text{Zn})_4(\text{AsO}_4)_4(\text{OH})_8(\text{OH}, \text{O})_2$                           | A  | 1978-079  | Namibia             | <i>Chemie der Erde</i> <b>40</b> (1981), 105                                                                    | <i>Canadian Mineralogist</i> <b>37</b> (1999), 53              |
| Jamesonite        | $\text{Pb}_4\text{FeSb}_6\text{S}_{14}$                                                                                                    | G  | 1825      | United Kingdom      | Treatise on Mineralogy, or the Natural History of the Mineral Kingdom, Vol. 1. Constable, Edinburgh (1825), 451 | <i>Journal of Geosciences</i> <b>65</b> (2020), 261            |
| Janchevite        | $\text{Pb}_9\text{VO}_{10.25}\square_{0.75}\text{Cl}_{2.5}$                                                                                | A  | 2017-079  | Namibia             | <i>Canadian Mineralogist</i> <b>56</b> (2018), 159                                                              | <i>American Mineralogist</i> <b>110</b> (2025), 422            |
| Janggunite        | $(\text{Mn}^{4+}, \text{Mn}^{2+}, \text{Fe}^{3+})_6\text{O}_8(\text{OH})_6$                                                                | A  | 1975-011  | South Korea         | <i>Mineralogical Magazine</i> <b>41</b> (1977), 519                                                             |                                                                |
| Janhaugite        | $\text{Na}_3\text{Mn}^{2+}_3\text{Ti}_2(\text{Si}_2\text{O}_7)_2(\text{O}, \text{OH}, \text{F})_4$                                         | A  | 1981-018  | Norway              | <i>American Mineralogist</i> <b>68</b> (1983), 1216                                                             | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1985), 7    |
| Jankovičite       | $\text{Ti}_5\text{Sb}_9(\text{As}, \text{Sb})_4\text{S}_{22}$                                                                              | A  | 1993-050  | North Macedonia     | <i>Mineralogy and Petrology</i> <b>53</b> (1995), 125                                                           | <i>European Journal of Mineralogy</i> <b>7</b> (1995), 479     |
| Jarandolite       | $\text{CaB}_3\text{O}_4(\text{OH})_3$                                                                                                      | A  | 1995-020c | Serbia              | <i>New Data on Minerals</i> <b>39</b> (2004), 26                                                                | <i>Crystallography Reports</i> <b>39</b> (1994), 905           |
| Jarlite           | $\text{Na}_2(\text{Sr}, \text{Na})_{14}(\text{Mg}, \square)_2\text{Al}_{12}\text{F}_{64}(\text{OH})_4$                                     | G  | 1933      | Denmark (Greenland) | <i>Meddelelser om Grønland</i> <b>92</b> (1933), 2                                                              | <i>Canadian Mineralogist</i> <b>30</b> (1992), 449             |
| Jarosewichite     | $\text{Mn}^{3+}\text{Mn}^{2+}_3(\text{AsO}_4)(\text{OH})_6$                                                                                | A  | 1981-060  | USA                 | <i>American Mineralogist</i> <b>67</b> (1982), 1043                                                             |                                                                |
| Jarosite          | $\text{KFe}^{3+}_3(\text{SO}_4)_2(\text{OH})_6$                                                                                            | Rd | 1987 s.p. | Spain               | <i>Berg- und Hüttenmannische Zeitung</i> , 11th ed. Engelhardt, Freiberg (1852), 68                             | <i>American Mineralogist</i> <b>95</b> (2010), 1590            |
| Jaskólskiite      | $\text{Cu}_x\text{Pb}_{2+x}(\text{Sb}, \text{Bi})_{2-x}\text{S}_5$ ( $x \approx 0.15$ )                                                    | A  | 1982-057  | Sweden              | <i>Canadian Mineralogist</i> <b>22</b> (1984), 481                                                              | <i>Zeitschrift für Kristallographie</i> <b>171</b> (1985), 179 |
| Jasmundite        | $\text{Ca}_{11}\text{O}_2(\text{SiO}_4)_4\text{S}$                                                                                         | A  | 1981-047  | Germany             | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1983), 337                                                   | <i>Acta Crystallographica</i> <b>B37</b> (1981), 803           |
| Jasonsmithite     | $\text{Mn}^{2+}_4\text{ZnAl}(\text{PO}_4)_4(\text{OH})(\text{H}_2\text{O})_7 \cdot 3.5\text{H}_2\text{O}$                                  | A  | 2019-121  | USA                 | <i>American Mineralogist</i> <b>106</b> (2021), 174                                                             |                                                                |
| Jasrouxite        | $\text{Ag}_{16}\text{Pb}_4(\text{Sb}_{25}\text{As}_{15})\text{S}_{72}$                                                                     | A  | 2012-058  | France              | <i>European Journal of Mineralogy</i> <b>25</b> (2013), 1031                                                    | <i>European Journal of Mineralogy</i> <b>26</b> (2014), 145    |
| Jaszczakite       | $[\text{Bi}_3\text{S}_3][\text{AuS}_2]$                                                                                                    | A  | 2016-077  | Hungary             | <i>European Journal of Mineralogy</i> <b>29</b> (2017), 673                                                     |                                                                |
| Javorieite        | $\text{KFeCl}_3$                                                                                                                           | A  | 2016-020  | Slovakia            | <i>European Journal of Mineralogy</i> <b>29</b> (2017), 995                                                     |                                                                |
| Jeanbandyite      | $\text{Fe}^{3+}\text{Sn}(\text{OH})_5\text{O}$                                                                                             | A  | 1980-043  | Bolivia             | <i>Mineralogical Record</i> <b>13</b> (1982), 235                                                               | <i>Mineralogical Magazine</i> <b>81</b> (2017), 297            |
| Jeankempite       | $\text{Ca}_5(\text{AsO}_4)_2(\text{AsO}_3\text{OH})_2(\text{H}_2\text{O})_7$                                                               | A  | 2018-090  | USA                 | <i>Mineralogical Magazine</i> <b>84</b> (2020), 959                                                             |                                                                |
| Jedwabite         | $\text{Fe}_7\text{Ta}_3$                                                                                                                   | A  | 1995-043  | Russia              | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>126(2)</b> (1997), 100                          |                                                                |
| Jeffbenite        | $\text{Mg}_3\text{Al}_2\text{Si}_3\text{O}_{12}$                                                                                           | A  | 2014-097  | Brazil              | <i>Mineralogical Magazine</i> <b>80</b> (2016), 1219                                                            |                                                                |
| Jeffreyite        | $(\text{Ca}, \text{Na})_2(\text{Be}, \text{Al})\text{Si}_2(\text{O}, \text{OH})_7$                                                         | A  | 1982-095  | Canada              | <i>Canadian Mineralogist</i> <b>22</b> (1984), 443                                                              |                                                                |
| Jennite           | $\text{Ca}_9(\text{Si}_3\text{O}_9)_2(\text{OH})_6(\text{H}_2\text{O})_8$                                                                  | A  | 1965-021  | USA                 | <i>American Mineralogist</i> <b>51</b> (1966), 56                                                               | <i>Cement and Concrete Research</i> <b>34</b> (2004), 1481     |
| Jensenite         | $\text{Cu}^{2+}_3\text{Te}^{6+}\text{O}_6(\text{H}_2\text{O})_2$                                                                           | A  | 1994-043  | USA                 | <i>Canadian Mineralogist</i> <b>34</b> (1996), 49                                                               | <i>Canadian Mineralogist</i> <b>34</b> (1996), 55              |

|                       |                                                                                                                                                                  |    |           |                            |                                                                                                                                        |                                                                                             |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----------|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| Jentschite            | TiPbAs <sub>2</sub> SbS <sub>6</sub>                                                                                                                             | A  | 1993-025  | Switzerland                | <i>Mineralogical Magazine</i> <b>61</b> (1997), 131                                                                                    | <i>Schweizerische Mineralogische und Petrographische Mitteilungen</i> <b>76</b> (1996), 147 |
| Jepeite               | K <sub>2</sub> Ti <sub>6</sub> O <sub>13</sub>                                                                                                                   | A  | 1980-080  | Australia                  | <i>Mineralogical Magazine</i> <b>48</b> (1984), 263                                                                                    | <i>Australian Journal of Chemistry</i> <b>30</b> (1977), 1195                               |
| Jeremejevite          | Al <sub>6</sub> (BO <sub>3</sub> ) <sub>5</sub> F <sub>3</sub>                                                                                                   | G  | 1883      | Russia                     | <i>Bulletin de la Société Minéralogique de France</i> <b>6</b> (1883), 20                                                              | <i>Zeitschrift für Kristallographie</i> <b>165</b> (1983), 255                              |
| Jerrygibbsite         | Mn <sup>2+</sup> <sub>9</sub> (SiO <sub>4</sub> ) <sub>4</sub> (OH) <sub>2</sub>                                                                                 | A  | 1981-059  | USA                        | <i>American Mineralogist</i> <b>69</b> (1984), 546                                                                                     | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1989), 410                               |
| Jervisite             | NaSc <sup>3+</sup> Si <sub>2</sub> O <sub>6</sub>                                                                                                                | A  | 1980-012  | Italy                      | <i>American Mineralogist</i> <b>67</b> (1982), 599                                                                                     | <i>Canadian Mineralogist</i> <b>57</b> (2019), 489                                          |
| Ježekite              | Na <sub>8</sub> [(UO <sub>2</sub> )(CO <sub>3</sub> ) <sub>3</sub> ](SO <sub>4</sub> ) <sub>2</sub> (H <sub>2</sub> O) <sub>3</sub>                              | A  | 2014-079  | Czech Republic             | <i>Journal of Geosciences</i> <b>60</b> (2015), 259                                                                                    |                                                                                             |
| Jianmuite             | ZrTi <sup>4+</sup> Ti <sup>3+</sup> <sub>5</sub> Al <sub>3</sub> O <sub>16</sub>                                                                                 | A  | 2023-057  | China / Mexico (meteorite) | <i>American Mineralogist</i> <b>110</b> (2025), 630                                                                                    |                                                                                             |
| Jianshuiite           | MgMn <sup>4+</sup> <sub>3</sub> O <sub>7</sub> (H <sub>2</sub> O) <sub>3</sub>                                                                                   | A  | 1990-019  | China                      | <i>Acta Mineralogica Sinica</i> <b>12</b> (1992), 69                                                                                   | <i>American Mineralogist</i> <b>101</b> (2016), 414                                         |
| Jimboite              | Mn <sup>2+</sup> <sub>3</sub> (BO <sub>3</sub> ) <sub>2</sub>                                                                                                    | A  | 1963-002  | Japan                      | <i>Proceedings of the Japan Academy, ser. B</i> <b>39</b> (1963), 170                                                                  | <i>Mineralogical Journal</i> <b>4</b> (1965), 380                                           |
| Jimkrieghite          | Ca(C <sub>2</sub> H <sub>3</sub> O <sub>3</sub> ) <sub>2</sub>                                                                                                   | A  | 2022-138  | USA                        | <i>Canadian Journal of Mineralogy and Petrology</i> <b>63</b> (2025), 91                                                               |                                                                                             |
| Jimthompsonite        | Mg <sub>5</sub> Si <sub>6</sub> O <sub>16</sub> (OH) <sub>2</sub>                                                                                                | A  | 1977-011  | USA                        | <i>American Mineralogist</i> <b>63</b> (1978), 1000                                                                                    | <i>American Mineralogist</i> <b>63</b> (1978), 1053                                         |
| Jingsuiite            | TiB <sub>2</sub>                                                                                                                                                 | A  | 2018-117b | China                      | <i>American Mineralogist</i> <b>107</b> (2022), 43                                                                                     |                                                                                             |
| Jingwenite-(Y)        | YAIV <sup>4+</sup> (SiO <sub>4</sub> )O <sub>2</sub> (OH) <sub>2</sub>                                                                                           | A  | 2021-070  | China                      | <i>American Mineralogist</i> <b>108</b> (2023), 192                                                                                    |                                                                                             |
| Jinshajiangite        | NaBaFe <sup>2+</sup> <sub>4</sub> Ti <sub>2</sub> (Si <sub>2</sub> O <sub>7</sub> ) <sub>2</sub> O <sub>2</sub> (OH) <sub>2</sub> F                              | Rd | 1981-061  | China                      | <i>Geochemistry</i> <b>1</b> (1982), 458                                                                                               | <i>Canadian Mineralogist</i> <b>58</b> (2020), 223                                          |
| Jinxiuite             | Ni <sub>18</sub> Bi <sub>2</sub> SbAsS <sub>16</sub>                                                                                                             | A  | 2025-059  | China                      | CNMNC Newsletter 88 - <i>Mineralogical Magazine</i> <b>90</b> (2026), 192; <i>European Journal of Mineralogy</i> <b>37</b> (2025), 921 |                                                                                             |
| Joanneumite           | Cu(C <sub>3</sub> N <sub>3</sub> O <sub>3</sub> H <sub>2</sub> ) <sub>2</sub> (NH <sub>3</sub> ) <sub>2</sub>                                                    | A  | 2012-001  | Chile                      | <i>Mineralogical Magazine</i> <b>81</b> (2017), 155                                                                                    |                                                                                             |
| Joaquinite-(Ce)       | NaBa <sub>2</sub> Fe <sup>2+</sup> Ti <sub>2</sub> Ce <sub>2</sub> (Si <sub>4</sub> O <sub>12</sub> ) <sub>2</sub> O <sub>2</sub> (OH)(H <sub>2</sub> O)         | Rd | 2001 s.p. | USA                        | <i>Bulletin of the University of California, Department of Geology</i> <b>5</b> (1909), 331                                            | <i>American Mineralogist</i> <b>60</b> (1975), 872                                          |
| Joegoldsteinite       | MnCr <sub>2</sub> S <sub>4</sub>                                                                                                                                 | A  | 2015-049  | USA                        | <i>American Mineralogist</i> <b>101</b> (2016), 1217                                                                                   |                                                                                             |
| Joëlbruggerite        | Pb <sub>3</sub> Zn <sub>3</sub> Sb <sup>5+</sup> As <sub>2</sub> O <sub>13</sub> (OH)                                                                            | A  | 2008-034  | USA                        | <i>American Mineralogist</i> <b>94</b> (2009), 1012                                                                                    |                                                                                             |
| Joesmithite           | Pb <sup>2+</sup> Ca <sub>2</sub> (Mg <sub>3</sub> Fe <sup>3+</sup> <sub>2</sub> )(Si <sub>6</sub> Be <sub>2</sub> )O <sub>22</sub> (OH) <sub>2</sub>             | Rd | 2012 s.p. | Sweden                     | <i>Arkiv för Mineralogi och Geologi</i> <b>4</b> (1968), 487                                                                           | <i>Mineralogy and Petrology</i> <b>48</b> (1993), 97                                        |
| Johachidolite         | CaAlB <sub>3</sub> O <sub>7</sub>                                                                                                                                | Rd | 1977 s.p. | North Korea                | <i>Scientific Papers of the Institute of Physical and Chemical Research</i> <b>39</b> (1942), 300                                      | <i>European Journal of Mineralogy</i> <b>20</b> (2008), 965                                 |
| Johanngeorgenstadtite | Ni <sup>2+</sup> <sub>4.5</sub> (AsO <sub>4</sub> ) <sub>3</sub>                                                                                                 | A  | 2019-122  | Germany                    | <i>European Journal of Mineralogy</i> <b>32</b> (2020), 373                                                                            |                                                                                             |
| Johannite             | Cu(UO <sub>2</sub> ) <sub>2</sub> (SO <sub>4</sub> ) <sub>2</sub> (OH) <sub>2</sub> (H <sub>2</sub> O) <sub>4</sub> ·4H <sub>2</sub> O                           | G  | 1830      | Czech Republic             | <i>Edinburgh Journal of Science</i> <b>3</b> (1830), 306                                                                               | <i>Crystals</i> <b>12</b> (2022), 1503                                                      |
| Johannsenite          | CaMnSi <sub>2</sub> O <sub>6</sub>                                                                                                                               | A  | 1988 s.p. | Italy / USA                | <i>American Mineralogist</i> <b>23</b> (1938), 575                                                                                     | <i>American Mineralogist</i> <b>95</b> (2010), 832                                          |
| Johillerite           | NaCuMgMg <sub>2</sub> (AsO <sub>4</sub> ) <sub>3</sub>                                                                                                           | A  | 1980-014  | Namibia                    | <i>Tschermaks Mineralogische und Petrographische Mitteilungen</i> <b>29</b> (1982), 169                                                | <i>Canadian Mineralogist</i> <b>56</b> (2018), 189                                          |
| Johnbaumite           | Ca <sub>5</sub> (AsO <sub>4</sub> ) <sub>3</sub> (OH)                                                                                                            | A  | 1980 s.p. | USA                        | <i>American Mineralogist</i> <b>65</b> (1980), 1143                                                                                    | <i>American Mineralogist</i> <b>98</b> (2013), 1580                                         |
| Johnnesite            | Na <sub>2</sub> Mn <sup>2+</sup> <sub>9</sub> Mg <sub>7</sub> (AsO <sub>4</sub> ) <sub>2</sub> (Si <sub>6</sub> O <sub>17</sub> ) <sub>2</sub> (OH) <sub>8</sub> | A  | 1985-046  | Namibia                    | <i>Mineralogical Magazine</i> <b>50</b> (1986), 667                                                                                    | <i>American Mineralogist</i> <b>79</b> (1994), 991                                          |
| Johnjamborite         | Pb <sub>14</sub> Sb <sub>8.5</sub> As <sub>7.5</sub> S <sub>38</sub>                                                                                             | A  | 2024-077  | Canada                     | CNMNC Newsletter 84 - <i>Mineralogical Magazine</i> <b>89</b> (2025), 298; <i>European Journal of Mineralogy</i> <b>37</b> (2025), 249 |                                                                                             |

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| Johnkoivulaite-(Cs)            | Cs(Be <sub>2</sub> B)Mg <sub>2</sub> (Si <sub>6</sub> O <sub>18</sub> )                                                                                                                               | Rn | 2019-046  | Myanmar                          | <i>American Mineralogist</i> <b>106</b> (2021), 1844                                                | <i>American Mineralogist</i> <b>109</b> (2024), 15                        |
| Johnsenite-(Ce)                | Na <sub>12</sub> Ce <sub>3</sub> Ca <sub>6</sub> Mn <sub>3</sub> Zr <sub>3</sub> WSi <sub>25</sub> O <sub>73</sub> (CO <sub>3</sub> )(OH) <sub>2</sub>                                                | A  | 2004-026  | Canada                           | <i>Canadian Mineralogist</i> <b>44</b> (2006), 105                                                  |                                                                           |
| Johnsomervilleite              | Na <sub>3</sub> CaFe <sup>2+</sup> <sub>11</sub> (PO <sub>4</sub> ) <sub>9</sub>                                                                                                                      | Rd | 1979-032  | United Kingdom                   | <i>Mineralogical Magazine</i> <b>43</b> (1980), 833                                                 |                                                                           |
| Johntomaite                    | BaFe <sup>2+</sup> <sub>2</sub> Fe <sup>3+</sup> <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> (OH) <sub>3</sub>                                                                                       | A  | 1999-009  | Australia                        | <i>Mineralogy and Petrology</i> <b>70</b> (2000), 1                                                 |                                                                           |
| Johnwalkite                    | KMn <sup>2+</sup> <sub>2</sub> NbO <sub>2</sub> (PO <sub>4</sub> ) <sub>2</sub> (H <sub>2</sub> O) <sub>2</sub>                                                                                       | A  | 1985-008  | USA                              | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1986), 115                                       |                                                                           |
| Jōkokuite                      | Mn <sup>2+</sup> (SO <sub>4</sub> )(H <sub>2</sub> O) <sub>4</sub> ·H <sub>2</sub> O                                                                                                                  | A  | 1976-045  | Japan                            | <i>Mineralogical Journal</i> <b>9</b> (1978), 28                                                    | <i>Zeitschrift für Naturforschung</i> <b>37a</b> (1982), 581              |
| Joliotite                      | (UO <sub>2</sub> )(CO <sub>3</sub> )·2H <sub>2</sub> O                                                                                                                                                | A  | 1974-014  | Germany                          | <i>Schweizerische Mineralogische und Petrographische Mitteilungen</i> <b>56</b> (1976), 167         |                                                                           |
| Jolliffeite                    | NiAsSe                                                                                                                                                                                                | A  | 1989-011  | Canada                           | <i>Canadian Mineralogist</i> <b>29</b> (1991), 411                                                  |                                                                           |
| Jonassonite                    | Au(Bi,Pb) <sub>5</sub> S <sub>4</sub>                                                                                                                                                                 | A  | 2004-031  | Hungary                          | <i>Canadian Mineralogist</i> <b>44</b> (2006) 1127                                                  |                                                                           |
| Jonesite                       | KBa <sub>2</sub> Ti <sub>2</sub> (Si <sub>5</sub> Al)O <sub>18</sub> (H <sub>2</sub> O) <sub>n</sub> [n ~ 2.3]                                                                                        | A  | 1976-040  | USA                              | <i>Mineralogical Record</i> <b>8</b> (1977), 453                                                    | <i>American Mineralogist</i> <b>89</b> (2004), 314                        |
| Jonlarsenite                   | Al <sub>4</sub> Cu <sub>9</sub>                                                                                                                                                                       | A  | 2024-078a | Norway (meteorite)               | <i>European Journal of Mineralogy</i> <b>37</b> (2025), 783                                         |                                                                           |
| Joosteite                      | Mn <sup>2+</sup> Mn <sup>3+</sup> (PO <sub>4</sub> )O                                                                                                                                                 | A  | 2005-013  | Namibia                          | <i>Neues Jahrbuch für Mineralogie Abhandlungen</i> <b>183</b> (2007), 197                           | <i>Neues Jahrbuch für Mineralogie Abhandlungen</i> <b>184</b> (2007), 225 |
| Jordanite                      | Pb <sub>14</sub> As <sub>6</sub> S <sub>23</sub>                                                                                                                                                      | G  | 1864      | Switzerland                      | <i>Annalen der Physik und Chemie</i> <b>122</b> (1864), 371                                         | <i>Minerals</i> <b>6</b> (2016), 15                                       |
| Jordisite                      | MoS <sub>2</sub>                                                                                                                                                                                      | G  | 1909      | Germany                          | <i>Zeitschrift für Chemie und Industrie der Kolloide</i> <b>4</b> (1909), 190                       | <i>American Mineralogist</i> <b>86</b> (2001), 852                        |
| Jørgensenite                   | Na <sub>2</sub> Sr <sub>14</sub> Na <sub>2</sub> Al <sub>12</sub> F <sub>64</sub> (OH) <sub>4</sub>                                                                                                   | A  | 1995-046  | Denmark (Greenland)              | <i>Canadian Mineralogist</i> <b>35</b> (1997), 175                                                  | <i>Canadian Mineralogist</i> <b>35</b> (1997), 1509                       |
| Jörgkellerite                  | Na <sub>3</sub> Mn <sup>3+</sup> <sub>3</sub> (PO <sub>4</sub> ) <sub>2</sub> (CO <sub>3</sub> )O <sub>2</sub> (H <sub>2</sub> O) <sub>5</sub>                                                        | A  | 2015-020  | Tanzania                         | <i>Mineralogy and Petrology</i> <b>111</b> (2017), 373                                              |                                                                           |
| Joséite-A                      | Bi <sub>4</sub> TeS <sub>2</sub>                                                                                                                                                                      | Q  | 1853      | Brazil                           | Das Mohs'sche Mineralsystem. Gerold, Wien (1853), 121                                               | <i>Minerals</i> <b>11</b> (2021), 920                                     |
| Joséite-B                      | Bi <sub>4</sub> Te <sub>2</sub> S                                                                                                                                                                     | Q  | 1949      | Canada                           | <i>American Mineralogist</i> <b>34</b> (1949), 342                                                  | <i>Minerals</i> <b>11</b> (2021), 920                                     |
| Joteite                        | Ca <sub>2</sub> CuAl(AsO <sub>4</sub> )[AsO <sub>3</sub> (OH)] <sub>2</sub> (OH) <sub>2</sub> (H <sub>2</sub> O) <sub>5</sub>                                                                         | A  | 2012-091  | Chile                            | <i>Mineralogical Magazine</i> <b>77</b> (2013), 2811                                                |                                                                           |
| Jouravskite                    | Ca <sub>3</sub> Mn <sup>4+</sup> (SO <sub>4</sub> )(CO <sub>3</sub> )(OH) <sub>6</sub> (H <sub>2</sub> O) <sub>12</sub>                                                                               | A  | 1965-009  | Morocco                          | <i>Bulletin de la Société Française de Minéralogie et de Cristallographie</i> <b>88</b> (1965), 254 | <i>Physics and Chemistry of Minerals</i> <b>46</b> (2019), 417            |
| Juabite                        | CaCu <sub>10</sub> (Te <sup>4+</sup> O <sub>3</sub> ) <sub>4</sub> (AsO <sub>4</sub> ) <sub>4</sub> (OH) <sub>2</sub> (H <sub>2</sub> O) <sub>4</sub>                                                 | A  | 1996-001  | USA                              | <i>Mineralogical Magazine</i> <b>61</b> (1997), 139                                                 | <i>Journal of Geosciences</i> <b>56</b> (2011), 235                       |
| Juangodoyite                   | Na <sub>2</sub> Cu(CO <sub>3</sub> ) <sub>2</sub>                                                                                                                                                     | A  | 2004-036  | Chile                            | <i>Neues Jahrbuch für Mineralogie Abhandlungen</i> <b>182</b> (2005), 11                            | <i>Minerals</i> <b>10</b> (2020), 190                                     |
| Juanitaite                     | (Cu,Ca,Fe) <sub>10</sub> Bi(AsO <sub>4</sub> ) <sub>4</sub> (OH) <sub>11</sub> ·2H <sub>2</sub> O                                                                                                     | A  | 1999-022  | USA                              | <i>Mineralogical Record</i> <b>31</b> (2000), 301                                                   |                                                                           |
| Juanite                        | Ca <sub>10</sub> (Mg,Fe <sup>2+</sup> ) <sub>4</sub> (Si,Al) <sub>13</sub> (O,OH) <sub>39</sub> ·4H <sub>2</sub> O (?)                                                                                | Q  | 1932      | USA                              | <i>American Mineralogist</i> <b>17</b> (1932), 343                                                  | <i>Geologiya i Geofizika</i> <b>12</b> (1971), 62                         |
| Juansilvaite                   | Na <sub>5</sub> Al <sub>3</sub> [AsO <sub>3</sub> (OH)] <sub>4</sub> [AsO <sub>2</sub> (OH) <sub>2</sub> ] <sub>2</sub> (SO <sub>4</sub> ) <sub>2</sub> (H <sub>2</sub> O) <sub>4</sub>               | A  | 2015-080  | Chile                            | <i>Mineralogical Magazine</i> <b>81</b> (2017), 619                                                 |                                                                           |
| Julgoldite-(Fe <sup>2+</sup> ) | Ca <sub>2</sub> (Fe <sup>2+</sup> Fe <sup>3+</sup> <sub>2</sub> )(Si <sub>2</sub> O <sub>7</sub> )(SiO <sub>4</sub> )(OH) <sub>2</sub> (H <sub>2</sub> O)                                             | Rn | 1966-033  | Sweden                           | <i>Lithos</i> <b>4</b> (1971), 93                                                                   | <i>Journal of Geosciences</i> <b>70</b> (2025), 43                        |
| Julgoldite-(Fe <sup>3+</sup> ) | Ca <sub>2</sub> (Fe <sup>3+</sup> Fe <sup>3+</sup> <sub>2</sub> )(Si <sub>2</sub> O <sub>7</sub> )(SiO <sub>4</sub> )O(OH)(H <sub>2</sub> O)                                                          | Rn | 1973 s.p. | Sweden                           | <i>Canadian Mineralogist</i> <b>12</b> (1973), 219                                                  | <i>American Mineralogist</i> <b>88</b> (2003), 1084                       |
| Julgoldite-(Mg)                | Ca <sub>2</sub> (MgFe <sup>3+</sup> <sub>2</sub> )(Si <sub>2</sub> O <sub>7</sub> )(SiO <sub>4</sub> )(OH) <sub>2</sub> (H <sub>2</sub> O)                                                            | Rn | 1973 s.p. | Japan                            | <i>Canadian Mineralogist</i> <b>12</b> (1973), 219                                                  |                                                                           |
| Julienite                      | Na <sub>2</sub> (H <sub>2</sub> O) <sub>8</sub> Co(SCN) <sub>4</sub>                                                                                                                                  | Rn | 2007 s.p. | Democratic Republic of the Congo | <i>Natuurwetenschappelijk Tijdschrift</i> <b>10(2)</b> (1928), 58                                   | <i>Acta Crystallographica</i> <b>B38</b> (1982), 1084                     |
| Jungite                        | [Ca <sub>2</sub> (H <sub>2</sub> O) <sub>6</sub> ]Zn <sub>4</sub> Fe <sup>3+</sup> <sub>8</sub> (PO <sub>4</sub> ) <sub>8</sub> (OH) <sub>12</sub> (H <sub>2</sub> O) <sub>4</sub> ·4H <sub>2</sub> O | A  | 1977-034  | Germany                          | <i>Aufschluss</i> <b>31</b> (1980), 55                                                              | <i>Mineralogical Magazine</i> <b>90</b> (2026), 467                       |
| Junitoite                      | CaZn <sub>2</sub> Si <sub>2</sub> O <sub>7</sub> (H <sub>2</sub> O)                                                                                                                                   | A  | 1975-042  | USA                              | <i>American Mineralogist</i> <b>61</b> (1976), 1255                                                 | <i>Acta Crystallographica</i> <b>E68</b> (2012), i73                      |

|               |                                                                                                 |    |           |                     |                                                                                                                                        |                                                                                         |
|---------------|-------------------------------------------------------------------------------------------------|----|-----------|---------------------|----------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| Junoite       | $\text{Cu}_2\text{Pb}_3\text{Bi}_8(\text{S,Se})_{16}$                                           | A  | 1974-011  | Australia           | <i>Economic Geology</i> <b>70</b> (1975), 369                                                                                          | <i>American Mineralogist</i> <b>60</b> (1975), 548                                      |
| Juonniite     | $\text{CaMgSc}(\text{PO}_4)_2(\text{OH})(\text{H}_2\text{O})_4$                                 | A  | 1996-060  | Russia              | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>126(4)</b> (1997), 80                                                  |                                                                                         |
| Jurbanite     | $\text{Al}(\text{SO}_4)(\text{OH})(\text{H}_2\text{O})_4 \cdot \text{H}_2\text{O}$              | A  | 1974-023  | USA                 | <i>American Mineralogist</i> <b>61</b> (1976), 1                                                                                       | <i>Zeitschrift für Kristallographie</i> <b>173</b> (1985), 33                           |
| Jusite        | $\text{Na}_2\text{Ca}_{15}\text{Al}_4\text{Si}_{16}\text{O}_{54} \cdot 17\text{H}_2\text{O}$    | Q  | 1943      | Germany             | <i>Neues Jahrbuch für Mineralogie, Geologie und Paläontologie</i> <b>A49</b> (1943), 178                                               | <i>Mineralogical Abstracts</i> <b>9</b> (1944), 37                                      |
| Juxingite     | $\text{Bi}_6\text{Cu}_{140}\text{Fe}_{30}\text{S}_{125}$                                        | A  | 2024-011  | China               | CNMNC Newsletter 80 - <i>Mineralogical Magazine</i> <b>88</b> (2024), 627; <i>European Journal of Mineralogy</i> <b>36</b> (2024), 599 | <a href="https://doi.org/10.2138/am-2025-9944">https://doi.org/10.2138/am-2025-9944</a> |
| Kaatialaite   | $\text{Fe}^{3+}[\text{AsO}_2(\text{OH})_2]_3 \cdot 5\text{H}_2\text{O}$                         | A  | 1982-021  | Finland             | <i>American Mineralogist</i> <b>69</b> (1984), 383                                                                                     | <i>Journal of Geosciences</i> <b>69</b> (2024), 225                                     |
| Kabalovite    | $\text{Fe}^{2+}_3\text{Fe}^{3+}_4(\text{PO}_4)_6$                                               | A  | 2021-117  | Israel              | CNMNC Newsletter 67 - <i>Mineralogical Magazine</i> <b>86</b> (2022), 849; <i>European Journal of Mineralogy</i> <b>34</b> (2022), 359 |                                                                                         |
| Kadyrelite    | $([\text{Hg}^{1+}]_2)_3\text{OBr}_3(\text{OH})$                                                 | A  | 1986-042  | Russia              | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>116</b> (1987), 733                                                      | <i>American Mineralogist</i> <b>77</b> (1992), 839                                      |
| Kaersutite    | $\text{NaCa}_2(\text{Mg}_3\text{AlTi}^{4+})(\text{Si}_6\text{Al}_2)\text{O}_{22}\text{O}_2$     | Rd | 2012 s.p. | Denmark (Greenland) | <i>Meddelelser om Grønland</i> <b>7</b> (1893), 1                                                                                      | <i>Mineralogy and Petrology</i> <b>109</b> (2015), 741                                  |
| Kahlenbergite | $\text{KAl}_{11}\text{O}_{17}$                                                                  | A  | 2018-158  | Israel              | <i>European Journal of Mineralogy</i> <b>33</b> (2021), 341                                                                            |                                                                                         |
| Kahlerite     | $\text{Fe}^{2+}(\text{UO}_2)_2(\text{AsO}_4)_2(\text{H}_2\text{O})_6 \cdot 6\text{H}_2\text{O}$ | G  | 1953      | Austria             | <i>Der Karinthin</i> <b>23</b> (1953), 277                                                                                             |                                                                                         |
| Kainite       | $\text{KMg}(\text{SO}_4)\text{Cl}(\text{H}_2\text{O})_{2.75}$                                   | G  | 1865      | Germany             | <i>Berg- und Huttenmannische Zeitung</i> <b>24</b> (1865), 79                                                                          | <i>Mineralogical Magazine</i> <b>86</b> (2022), 27                                      |
| Kainosite-(Y) | $\text{Ca}_2\text{Y}_2(\text{SiO}_3)_4(\text{CO}_3)(\text{H}_2\text{O})$                        | Rn | 1987 s.p. | Norway              | <i>Geologiska Föreningens i Stockholm Förhandlingar</i> <b>8</b> (1886), 143                                                           | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1989), 153                           |
| Kainotropite  | $\text{Cu}_4\text{Fe}^{3+}\text{O}_2(\text{V}_2\text{O}_7)(\text{VO}_4)$                        | A  | 2015-053  | Russia              | <i>Canadian Mineralogist</i> <b>58</b> (2020), 155                                                                                     |                                                                                         |
| Kaitianite    | $\text{Ti}^{3+}_2\text{Ti}^{4+}\text{O}_5$                                                      | A  | 2017-078a | Mexico (meteorite)  | <i>Meteoritics and Planetary Science</i> <b>56</b> (2021), 96                                                                          | <i>Minerals</i> <b>13</b> (2023), 1097                                                  |
| Kalborsite    | $\text{K}_6\text{Al}_4\text{BSi}_6\text{O}_{20}(\text{OH})_4\text{Cl}$                          | A  | 1979-033  | Russia              | <i>Doklady Akademii Nauk SSSR</i> <b>252</b> (1980), 1465                                                                              | <i>Doklady Akademii Nauk SSSR</i> <b>252</b> (1980), 611                                |
| Kaloorlieite  | $\text{As}_2\text{Te}_3$                                                                        | A  | 2015-119  | Australia           | CNMNC Newsletter 30 - <i>Mineralogical Magazine</i> <b>80</b> (2016), 407                                                              |                                                                                         |
| Kaliborite    | $\text{KHMg}_2\text{B}_{12}\text{O}_{16}(\text{OH})_{10}(\text{H}_2\text{O})_4$                 | G  | 1889      | Germany             | <i>Chemiker-Zeitung</i> <b>73</b> (1889), 1188                                                                                         | <i>Canadian Mineralogist</i> <b>32</b> (1994), 885                                      |
| Kalicinite    | $\text{KH}(\text{CO}_3)$                                                                        | G  | 1865      | Switzerland         | <i>Comptes Rendus de l'Académie des Sciences de Paris</i> <b>60</b> (1865), 918                                                        | <i>American Mineralogist</i> <b>92</b> (2007), 1018                                     |
| Kalifersite   | $\text{K}_5(\text{H}_2\text{O})_{12}\text{Fe}^{3+}_7\text{Si}_{20}\text{O}_{50}(\text{OH})_6$   | A  | 1996-007  | Russia              | <i>European Journal of Mineralogy</i> <b>10</b> (1998), 865                                                                            |                                                                                         |
| Kalininite    | $\text{ZnCr}_2\text{S}_4$                                                                       | A  | 1984-028  | Russia              | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>114</b> (1985), 622                                                      | <i>Physics and Chemistry of Minerals</i> <b>24</b> (1997), 597                          |
| Kalinite      | $\text{KAl}(\text{SO}_4)_2 \cdot 11\text{H}_2\text{O}$                                          | Q  | 1868      | unknown             | A System of Mineralogy, 5th ed. Wiley, New York (1868), 652                                                                            | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (2001), 27                            |
| Kaliochalcite | $\text{KCu}_2(\text{SO}_4)_2(\text{OH})(\text{H}_2\text{O})$                                    | A  | 2013-037  | Russia              | <i>European Journal of Mineralogy</i> <b>26</b> (2014), 597                                                                            |                                                                                         |
| Kaliophilite  | $\text{KAlSiO}_4$                                                                               | G  | 1887      | Italy               | <i>Mineralogische und Petrographische Mittheilungen</i> <b>8</b> (1887), 113                                                           | <i>IUCrJ</i> <b>7</b> (2020), 1070                                                      |

|                   |                                                      |    |           |                                  |                                                                                                     |                                                                         |
|-------------------|------------------------------------------------------|----|-----------|----------------------------------|-----------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|
| Kalistrontite     | $K_2Sr(SO_4)_2$                                      | A  | 1967 s.p. | Russia                           | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>91</b> (1962), 712                    | <i>American Mineralogist</i> <b>103</b> (2018), 1136                    |
| Kalithallite      | $K_3Ti^{3+}Cl_6(H_2O)_2$                             | A  | 2017-044  | Russia                           | <i>Mineralogical Magazine</i> <b>87</b> (2023), 186                                                 |                                                                         |
| Kalsilite         | $KAlSiO_4$                                           | G  | 1942      | Uganda                           | <i>Mineralogical Magazine</i> <b>26</b> (1942), 218                                                 | <i>American Mineralogist</i> <b>95</b> (2010), 1024                     |
| Kalungaite        | $PdAsSe$                                             | A  | 2004-047  | Brazil                           | <i>Mineralogical Magazine</i> <b>70</b> (2006), 123                                                 | <i>Journal of Solid State Chemistry</i> <b>162</b> (2001), 69           |
| Kalyuzhnyite-(Ce) | $NaKCASrCeTi(Si_8O_{21})OF(H_2O)_3$                  | A  | 2022-133  | Tajikistan                       | <i>Mineralogical Magazine</i> <b>88</b> (2024), 19                                                  |                                                                         |
| Kamaishilite      | $Ca_2(SiAl_2)O_6(OH)_2$                              | A  | 1980-052  | Japan                            | <i>Proceedings of the Japan Academy</i> <b>57B</b> (1981), 239                                      |                                                                         |
| Kamarizaite       | $Fe^{3+}_3(AsO_4)_2(OH)_3(H_2O)_3$                   | A  | 2008-017  | Greece                           | <i>Zapiski Rossiyskogo Mineralogicheskogo Obshchestva</i> <b>138(3)</b> (2009), 100                 | <i>European Journal of Mineralogy</i> <b>28</b> (2016), 71              |
| Kambaldaite       | $NaNi_4(CO_3)_3(OH)_3(H_2O)_3$                       | A  | 1982-098  | Australia                        | <i>American Mineralogist</i> <b>70</b> (1985), 419                                                  | <i>American Mineralogist</i> <b>70</b> (1985), 423                      |
| Kamchatkite       | $KCu_3O(SO_4)_2Cl$                                   | A  | 1987-018  | Russia                           | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>117</b> (1988), 459                   | <i>Physics and Chemistry of Minerals</i> <b>50</b> (2023), 11           |
| Kamenevite        | $K_2TiSi_3O_9(H_2O)$                                 | A  | 2017-021  | Russia                           | <i>European Journal of Mineralogy</i> <b>31</b> (2019), 557                                         |                                                                         |
| Kamiokite         | $Fe^{2+}_2Mo^{4+}_3O_8$                              | A  | 1975-003  | Japan                            | <i>Mineralogical Journal</i> <b>12</b> (1985), 393                                                  | <i>Acta Crystallographica</i> <b>C42</b> (1986), 9                      |
| Kamitugaite       | $PbAl(UO_2)_5(PO_4)_3O_2(OH)_2(H_2O)_{11.5}$         | Rn | 1983-030  | Democratic Republic of the Congo | <i>Bulletin de Minéralogie</i> <b>107</b> (1984), 15                                                | <i>Journal of Geosciences</i> <b>62</b> (2017), 253                     |
| Kamotoite-(Y)     | $Y_2(H_2O)_8(UO_2)_4(CO_3)_3O_2(OH)_2 \cdot 4.5H_2O$ | Rn | 1985-051  | Democratic Republic of the Congo | <i>Bulletin de Minéralogie</i> <b>109</b> (1986), 643                                               | <i>Mineralogical Magazine</i> <b>81</b> (2017), 653                     |
| Kampelite         | $Ba_3Mg_{1.5}Sc_4(PO_4)_6(OH)_3(H_2O)_4$             | A  | 2016-084  | Russia                           | <i>Mineralogy and Petrology</i> <b>112</b> (2018), 111                                              |                                                                         |
| Kampfite          | $Ba_{12}(Si_{11}Al_5)O_{31}(CO_3)_8Cl_5$             | A  | 2000-003  | USA                              | <i>Canadian Mineralogist</i> <b>39</b> (2001), 1053                                                 | <i>Canadian Mineralogist</i> <b>45</b> (2007), 935                      |
| Kamphaugite-(Y)   | $CaY(CO_3)_2(OH)(H_2O)$                              | A  | 1987-043  | Norway                           | <i>European Journal of Mineralogy</i> <b>5</b> (1993), 679                                          | <i>European Journal of Mineralogy</i> <b>5</b> (1993), 685              |
| Kanatidisite      | $(SbBiS_3)_2Te_2$                                    | A  | 2023-014  | Hungary                          | <i>Journal of the American Chemical Society</i> <b>145</b> (2023), 18227                            |                                                                         |
| Kanemite          | $NaSi_2O_4(OH)(H_2O)_3$                              | A  | 1971-050  | Chad                             | <i>Bulletin de la Société Française de Minéralogie et de Cristallographie</i> <b>95</b> (1972), 371 | <i>Mineralogical Magazine</i> <b>79</b> (2015), 103                     |
| Kangite           | $(Sc,Ti,Al,Zr,Mg,Ca,\square)_2O_3$                   | A  | 2011-092  | Mexico (meteorite)               | <i>American Mineralogist</i> <b>98</b> (2013), 870                                                  |                                                                         |
| Kangjinlaite      | $Ti_{11}Si_{10}$                                     | A  | 2019-112b | China                            | <i>American Mineralogist</i> <b>108</b> (2023), 197                                                 |                                                                         |
| Kaňkite           | $Fe^{3+}(AsO_4) \cdot 3.5H_2O$                       | A  | 1975-005  | Czech Republic                   | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1976), 426                                       | <i>Mineralogical Journal</i> <b>12</b> (1984), 6                        |
| Kannanite         | $Ca_4Al_4(AlMg)(VO_4)(SiO_4)_2(Si_3O_{10})(OH)_6$    | A  | 2015-100  | Japan                            | <i>Journal of Mineralogical and Petrological Sciences</i> <b>113</b> (2018), 245                    |                                                                         |
| Kanoite           | $MnMgSi_2O_6$                                        | A  | 1977-020  | Japan                            | <i>Journal of the Geological Society of Japan</i> <b>83</b> (1977), 537                             | <i>European Journal of Mineralogy</i> <b>9</b> (1997), 953              |
| Kanonaite         | $Mn^{3+}AlOSiO_4$                                    | A  | 1976-047  | Zambia                           | <i>Contributions to Mineralogy and Petrology</i> <b>66</b> (1978), 325                              | <i>Contributions to Mineralogy and Petrology</i> <b>147</b> (2004), 276 |
| Kanonerovite      | $Na_3MnP_3O_{10}(H_2O)_{12}$                         | A  | 1997-016  | Russia                           | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (2002), 117                                       | <i>Acta Crystallographica</i> <b>C43</b> (1987), 4                      |

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|-------------------|------------------------------------------------------------|---|-----------|----------------------------------|--------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|
| Kantorite         | $K_2NaMg(SO_4)_2F$                                         | A | 2024-042  | Russia                           | <i>Mineralogical Magazine</i> <b>89</b> (2025), 575                                                                      |                                                                            |
| Kaolinite         | $Al_2Si_2O_5(OH)_4$                                        | A | 1980 s.p. | China                            | <i>Clays and Clay Minerals</i> <b>28</b> (1980), 97                                                                      | <i>Mineralogical Magazine</i> <b>27</b> (1946), 242                        |
| Kapellasite       | $Cu_3Zn(OH)_6Cl_2$                                         | A | 2005-009  | Greece                           | <i>Mineralogical Magazine</i> <b>70</b> (2006), 329                                                                      | <i>Chemistry of Materials</i> <b>20</b> (2008), 6897                       |
| Kapitsaite-(Y)    | $Ba_4(YCa)[Si_8B_4O_{28}]F$                                | A | 1998-057  | Tajikistan                       | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>129(6)</b> (2000), 42                                    | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (2000), 74               |
| Kapundaite        | $CaNaFe^{3+}_4(PO_4)_4(OH)_3(H_2O)_5$                      | A | 2009-047  | Australia                        | <i>American Mineralogist</i> <b>95</b> (2010), 754                                                                       |                                                                            |
| Kapustinite       | $Na_6ZrSi_6O_{16}(OH)_2$                                   | A | 2003-018  | Russia                           | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>132(6)</b> (2003), 1                                     | <i>Doklady Earth Sciences</i> <b>397</b> (2004), 658                       |
| Karasugite        | $SrCaAlF_7$                                                | A | 1993-013  | Russia                           | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1994), 209                                                            |                                                                            |
| Karchevskyite     | $Mg_{18}Al_9(OH)_{54}Sr_2(CO_3)_9(H_2O)_6(H_3O)_5$         | A | 2005-015a | Russia                           | <i>Zapiski Rossiyskogo Mineralogicheskogo Obshchestva</i> <b>136(5)</b> (2007), 52                                       |                                                                            |
| Karelianite       | $V_2O_3$                                                   | A | 1967 s.p. | Finland                          | <i>American Mineralogist</i> <b>48</b> (1963), 33                                                                        | <i>Mineralogical Magazine</i> <b>72</b> (2008), 785                        |
| Karenwebberite    | $NaFe^{2+}(PO_4)$                                          | A | 2011-015  | Italy                            | <i>American Mineralogist</i> <b>98</b> (2013), 767                                                                       |                                                                            |
| Karibibite        | $Fe^{3+}_3(As^{3+}O_2)_4(As^{3+}_2O_5)(OH)$                | A | 1973-007  | Namibia                          | <i>Lithos</i> <b>6</b> (1973), 265                                                                                       | <i>Mineralogical Magazine</i> <b>81</b> (2017), 1191                       |
| Karlditmarite     | $Cu_9O_4(PO_4)_2(SO_4)_2$                                  | A | 2021-003  | Russia                           | <i>American Mineralogist</i> <b>111</b> (2026), 989                                                                      |                                                                            |
| Karlite           | $(Mg,Al)_{6.5}(BO_3)_3(OH)_4(\square,Cl)_{0.5}$            | A | 1980-030  | Austria                          | <i>American Mineralogist</i> <b>66</b> (1981), 872                                                                       | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1986), 253              |
| Karlleuite        | $Ca_2MnO_4$                                                | A | 2023-102  | Germany                          | <i>Mineralogy and Petrology</i> <b>118</b> (2024), 569                                                                   |                                                                            |
| Karlseifertite    | $Pb(Ga_2Ge)(AsO_4)_2(OH)_6$                                | A | 2024-007  | Namibia                          | <i>European Journal of Mineralogy</i> <b>36</b> (2024), 873                                                              |                                                                            |
| Karnasurtite-(Ce) | $CeTiAlSi_2O_7(OH)_4 \cdot 3H_2O$                          | Q | 1987 s.p. | Russia                           | <i>Trudy Institut Mineralogii, Geokhimii, Kristalloghimii Redkikh Elementov, Akademiia Nauk SSSR</i> <b>2</b> (1959), 95 |                                                                            |
| Karpenkoite       | $Co_3(V_2O_7)(OH)_2 \cdot 2H_2O$                           | A | 2014-092  | USA                              | <i>Journal of Geosciences</i> <b>60</b> (2015), 251                                                                      |                                                                            |
| Karpinskite       | $(Mg,Ni)_2Si_2O_5(OH)_2$ (?)                               | Q | 1956      | Russia                           | <i>Kora Vyvetrivaniya</i> <b>2</b> (1956), 124                                                                           | <i>Bulletin of the Geological Society of Denmark</i> <b>20</b> (1970), 492 |
| Karpovite         | $Ti_2VO(SO_4)_2(H_2O)$                                     | A | 2013-040  | Russia                           | <i>Mineralogical Magazine</i> <b>78</b> (2014), 1699                                                                     |                                                                            |
| Karupmøllerite-Ca | $(Na,Ca,K)_2Ca(Nb,Ti)_4(Si_4O_{12})_2(O,OH)_4 \cdot 7H_2O$ | A | 2001-028  | Denmark (Greenland)              | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (2002), 433                                                            | <i>Doklady Akademii Nauk</i> <b>375</b> (2000), 487                        |
| Karwowskiite      | $Ca_9Mg(Fe^{2+}_{0.5}\square_{0.5})(PO_4)_7$               | A | 2023-080  | Jordan                           | <i>Minerals</i> <b>14</b> (2024), 825                                                                                    |                                                                            |
| Kasatkinitite     | $Ba_2Ca_8B_5Si_8O_{32}(OH)_3 \cdot 6H_2O$                  | A | 2011-045  | Russia                           | <i>Zapiski Rossiyskogo Mineralogicheskogo Obshchestva</i> <b>141(3)</b> (2012), 39                                       |                                                                            |
| Kashinite         | $Ir_2S_3$                                                  | A | 1982-036  | Russia                           | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>114</b> (1985), 617                                        | <i>Acta Crystallographica</i> <b>C78</b> (2022), 606                       |
| Kaskasite         | $(Mo,Nb)S_2 \cdot (Mg_{1-x}Al_x)(OH)_{2+x}$                | A | 2013-025  | Russia                           | <i>Mineralogical Magazine</i> <b>78</b> (2014), 663                                                                      |                                                                            |
| Kasolite          | $Pb(UO_2)(SiO_4)(H_2O)$                                    | A | 1980 s.p. | Democratic Republic of the Congo | <i>Comptes Rendus Hebdomadaires des Séances de l'Académie des Sciences</i> <b>173</b> (1921), 1476                       | <i>RSC Advances</i> <b>9</b> (2019), 15323                                 |

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|-------------------|-------------------------------------------------------------------------------------------------------------------|----|-----------|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Kassite           | $\text{CaTi}_2\text{O}_4(\text{OH})_2$                                                                            | A  | 1968 s.p. | Russia             | The Caledonian complex of the ultrabasic alkaline rocks and carbonatites of the Kola Peninsula and northern Karelia. Izdatelstvo "Nedra", Moscow (1965), 368 | <i>American Mineralogist</i> <b>88</b> (2003), 1331                                 |
| Kastningite       | $\text{Mn}^{2+}\text{Al}_2(\text{PO}_4)_2(\text{OH})_2(\text{H}_2\text{O})_6 \cdot 2\text{H}_2\text{O}$           | A  | 1997-033  | Germany            | <i>Lapis</i> <b>24(6)</b> (1999), 39                                                                                                                         | <i>Zeitschrift für Kristallographie</i> <b>214</b> (1999), 465                      |
| Katanite          | $\text{Ba}_3\text{NbFe}_3\text{Si}_2\text{O}_{14}$                                                                | A  | 2025-022  | Israel             | CNMNC Newsletter 86 - <i>Mineralogical Magazine</i> <b>89</b> (2025), 544; <i>European Journal of Mineralogy</i> <b>37</b> (2025), 549                       |                                                                                     |
| Katayamalite      | $\text{KLi}_3\text{Ca}_7\text{Ti}_2(\text{SiO}_3)_{12}(\text{OH})_2$                                              | A  | 1982-004  | Japan              | <i>Mineralogical Journal</i> <b>11</b> (1983), 261                                                                                                           | <i>Acta Crystallographica</i> <b>E69</b> (2013), i41                                |
| Katerinopoulosite | $(\text{NH}_4)_2\text{Zn}(\text{SO}_4)_2(\text{H}_2\text{O})_6$                                                   | A  | 2017-004  | Greece             | <i>European Journal of Mineralogy</i> <b>30</b> (2018), 821                                                                                                  |                                                                                     |
| Katiarsite        | $\text{KTiO}(\text{AsO}_4)$                                                                                       | A  | 2014-025  | Russia             | <i>Mineralogical Magazine</i> <b>80</b> (2016), 639                                                                                                          |                                                                                     |
| Katoite           | $\text{Ca}_3\text{Al}_2(\text{OH})_{12}$                                                                          | A  | 1982-080  | Italy              | <i>Bulletin de Minéralogie</i> <b>107</b> (1984), 605                                                                                                        | <i>Journal of Mineralogical and Petrological Sciences</i> <b>114</b> (2019), 189    |
| Katophorite       | $\text{Na}(\text{NaCa})(\text{Mg}_4\text{Al})(\text{Si}_7\text{Al})\text{O}_{22}(\text{OH})_2$                    | A  | 2013-140  | Myanmar            | <i>Mineralogical Magazine</i> <b>79</b> (2015), 355                                                                                                          |                                                                                     |
| Katoptrite        | $\text{Mn}^{2+}_{13}\text{Al}_4\text{Sb}^{5+}_2\text{O}_{20}(\text{SiO}_4)_2$                                     | G  | 1917      | Sweden             | <i>Geologiska Föreningens i Stockholm Förhandlingar</i> <b>39</b> (1917), 426                                                                                | <i>Neues Jahrbuch für Mineralogie Abhandlungen</i> <b>127</b> (1976), 47            |
| Katsarosite       | $\text{Zn}(\text{C}_2\text{O}_4)(\text{H}_2\text{O})_2$                                                           | A  | 2020-014  | Greece             | <i>Mineralogy and Petrology</i> <b>117</b> (2023), 259                                                                                                       |                                                                                     |
| Kawazulite        | $\text{Bi}_2\text{Te}_2\text{Se}$                                                                                 | A  | 1968-014  | Japan              | <i>Geological Survey of Japan</i> <b>39</b> (1970), 87                                                                                                       | <i>Canadian Mineralogist</i> <b>19</b> (1981), 341                                  |
| Kayrobertsonite   | $\text{MnAl}_2(\text{PO}_4)_2(\text{OH})_2(\text{H}_2\text{O})_4 \cdot 2\text{H}_2\text{O}$                       | A  | 2015-029  | Germany            | <i>European Journal of Mineralogy</i> <b>28</b> (2016), 649                                                                                                  |                                                                                     |
| Kayupovaite       | $\text{Na}_2\text{Mn}^{2+}_{10}[(\text{Si}_{14}\text{Al}_2)\text{O}_{38}(\text{OH})_8] \cdot 7\text{H}_2\text{O}$ | A  | 2022-045  | Kazakhstan         | <i>European Journal of Mineralogy</i> <b>37</b> (2025), 829                                                                                                  |                                                                                     |
| Kazakhstanite     | $\text{Fe}^{3+}_5\text{V}^{4+}_3\text{V}^{5+}_{12}\text{O}_{39}(\text{OH})_9 \cdot 9\text{H}_2\text{O}$           | A  | 1988-044  | Kazakhstan         | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>118(5)</b> (1989), 95                                                                        |                                                                                     |
| Kazakovite        | $\text{Na}_6\text{Mn}^{2+}\text{TiSi}_6\text{O}_{18}$                                                             | A  | 1973-061  | Russia             | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>103</b> (1974), 342                                                                            | <i>Zapiski Rossiyskogo Mineralogicheskogo Obshchestva</i> <b>150(5)</b> (2021), 134 |
| Kazanskyite       | $\text{Ba}\square\text{TiNbNa}_3\text{Ti}(\text{Si}_2\text{O}_7)_2\text{O}_2(\text{OH})_2(\text{H}_2\text{O})_4$  | Rd | 2011-007  | Russia             | <i>Mineralogical Magazine</i> <b>76</b> (2012), 473                                                                                                          |                                                                                     |
| Kaznakhtite       | $\text{Ni}_6\text{Co}^{3+}_2(\text{OH})_{16}(\text{CO}_3)_4 \cdot 4\text{H}_2\text{O}$                            | A  | 2021-056  | Russia             | <i>Mineralogical Magazine</i> <b>86</b> (2022), 841                                                                                                          |                                                                                     |
| Keckite           | $\text{CaMn}(\text{Fe}^{3+}, \text{Mn})_2\text{Fe}^{3+}_2(\text{PO}_4)_4(\text{OH})_3(\text{H}_2\text{O})_7$      | A  | 1977-028  | Germany            | <i>Neues Jahrbuch für Mineralogie Abhandlungen</i> <b>134</b> (1979), 183                                                                                    | <i>Canadian Mineralogist</i> <b>48</b> (2010), 1445                                 |
| Kegelite          | $\text{Pb}_4\text{Al}_2\text{Si}_4\text{O}_{10}(\text{SO}_4)(\text{CO}_3)_2(\text{OH})_4$                         | Rd | 1974-042  | Namibia            | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1976), 110                                                                                                | <i>American Mineralogist</i> <b>75</b> (1990), 702                                  |
| Kegginite         | $\text{Pb}_3\text{Ca}_3[\text{AsV}_{12}\text{O}_{40}(\text{VO})] \cdot 20\text{H}_2\text{O}$                      | A  | 2015-114  | USA                | <i>American Mineralogist</i> <b>102</b> (2017), 461                                                                                                          |                                                                                     |
| Keilite           | $\text{FeS}$                                                                                                      | A  | 2001-053  | Canada (meteorite) | <i>Canadian Mineralogist</i> <b>40</b> (2002), 1687                                                                                                          | <i>American Mineralogist</i> <b>92</b> (2007), 204                                  |
| Keithconnite      | $\text{Pd}_{20}\text{Te}_7$                                                                                       | A  | 1978-032  | USA                | <i>Canadian Mineralogist</i> <b>17</b> (1979), 589                                                                                                           | <i>Canadian Mineralogist</i> <b>28</b> (1990), 751                                  |
| Keiviite-(Y)      | $\text{Y}_2\text{Si}_2\text{O}_7$                                                                                 | A  | 1984-054  | Russia             | <i>Mineralogiceskij Zhurnal</i> <b>7</b> (1985), 79                                                                                                          | <i>Journal of Applied Crystallography</i> <b>44</b> (2011), 846                     |
| Keiviite-(Yb)     | $\text{Yb}_2\text{Si}_2\text{O}_7$                                                                                | Rn | 1987 s.p. | Russia             | <i>Mineralogiceskij Zhurnal</i> <b>5</b> (1983), 94                                                                                                          | <i>Soviet Physics Doklady</i> <b>31</b> (1986), 930                                 |
| Keldyshite        | $\text{Na}_2\text{ZrSi}_2\text{O}_7$                                                                              | A  | 1975-034  | Russia             | <i>Doklady Akademii Nauk SSSR</i> <b>142</b> (1962), 916                                                                                                     | <i>Doklady Akademii Nauk SSSR</i> <b>238</b> (1978), 573                            |

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| Kellyite                     | $(\text{Mn}^{2+}, \text{Mg}, \text{Al})_3(\text{Si}, \text{Al})_2\text{O}_5(\text{OH})_4$                                                                                             | A  | 1974-002  | USA                         | <i>American Mineralogist</i> <b>59</b> (1974), 1153                                                                                    |                                                                                             |
| Kelyanite                    | $\text{Hg}_{12}\text{SbO}_6\text{BrCl}_2$                                                                                                                                             | A  | 1981-013  | Russia                      | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>111</b> (1982), 330                                                      | <i>American Mineralogist</i> <b>93</b> (2008), 1666                                         |
| Kemmlitzite                  | $\text{SrAl}_3(\text{AsO}_4)(\text{SO}_4)(\text{OH})_6$                                                                                                                               | Rd | 1967-021  | Germany                     | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1969), 201                                                                          | <i>Mineralogical Magazine</i> <b>74</b> (2010), 919                                         |
| Kempite                      | $\text{Mn}^{2+}_2\text{Cl}(\text{OH})_3$                                                                                                                                              | G  | 1924      | USA                         | <i>American Journal of Science</i> <b>8</b> (1924), 145                                                                                |                                                                                             |
| Kenhsuite                    | $\text{Hg}_3\text{S}_2\text{Cl}_2$                                                                                                                                                    | A  | 1996-026  | USA                         | <i>Canadian Mineralogist</i> <b>36</b> (1998), 201                                                                                     |                                                                                             |
| Kenngottite                  | $\text{Mn}^{2+}_3\text{Fe}^{3+}_4(\text{PO}_4)_4(\text{OH})_6(\text{H}_2\text{O})_2$                                                                                                  | A  | 2018-063a | Czech Republic              | <i>European Journal of Mineralogy</i> <b>31</b> (2019), 629                                                                            | <i>European Journal of Mineralogy</i> <b>34</b> (2022), 439                                 |
| Kennygayite                  | $[\text{Pb}_4\text{O}_2(\text{OH})_2](\text{SO}_4)$                                                                                                                                   | A  | 2022-032  | USA                         | <i>Canadian Journal of Mineralogy and Petrology</i> <b>62</b> (2024), 391                                                              |                                                                                             |
| Kenoargentotennantite-(Fe)   | $\text{Ag}_6(\text{Cu}_4\text{Fe}_2)\text{As}_4\text{S}_{12}\square$                                                                                                                  | A  | 2020-062  | Italy                       | CNMNC Newsletter 58 - <i>Mineralogical Magazine</i> <b>84</b> (2020), 971; <i>European Journal of Mineralogy</i> <b>32</b> (2020), 645 | <a href="https://doi.org/10.1180/mgm.2026.10214">https://doi.org/10.1180/mgm.2026.10214</a> |
| Kenoargentotetrahedrite-(Fe) | $\text{Ag}_6(\text{Cu}_4\text{Fe}_2)\text{Sb}_4\text{S}_{12}\square$                                                                                                                  | Rd | 2019 s.p. | Germany                     | Das Mohs'sche Mineralsystem. Gerold, Wien (1853), 117                                                                                  | <i>Crystals</i> <b>12</b> (2022), 467                                                       |
| Kenoargentotetrahedrite-(Zn) | $\text{Ag}_6(\text{Cu}_4\text{Zn}_2)\text{Sb}_4\text{S}_{12}\square$                                                                                                                  | A  | 2020-075  | China                       | <i>European Journal of Mineralogy</i> <b>36</b> (2024), 397                                                                            |                                                                                             |
| Kenomicrolite                | $\square_2\text{Ta}_2[\text{O}_4(\text{OH})_2]\square$                                                                                                                                | A  | 2024-097  | Brazil                      | CNMNC Newsletter 85 - <i>Mineralogical Magazine</i> <b>89</b> (2025), 454; <i>European Journal of Mineralogy</i> <b>37</b> (2025), 337 | <a href="https://doi.org/10.1180/mgm.2025.10144">https://doi.org/10.1180/mgm.2025.10144</a> |
| Kenoplumbomicrolite          | $(\text{Pb}, \square)_2\text{Ta}_2\text{O}_6[\square, (\text{OH}), \text{O}]$                                                                                                         | A  | 2015-007a | Russia                      | <i>Mineralogical Magazine</i> <b>82</b> (2018), 1049                                                                                   |                                                                                             |
| Kenorozhdestvenskayaite-(Fe) | $\text{Ag}_6(\text{Ag}_4\text{Fe}_2)\text{Sb}_4\text{S}_{12}\square$                                                                                                                  | A  | 2022-001  | China                       | <i>American Mineralogist</i> <b>109</b> (2024), 1275                                                                                   |                                                                                             |
| Kenotobermorite              | $\text{Ca}_4\text{Si}_6\text{O}_{15}(\text{OH})_2(\text{H}_2\text{O})_2 \cdot 3\text{H}_2\text{O}$                                                                                    | A  | 2014 s.p. | South Africa                | <i>Mineralogical Magazine</i> <b>79</b> (2015), 485                                                                                    |                                                                                             |
| Kentbrooksite                | $(\text{Na}, \text{REE})_{15}(\text{Ca}, \text{REE})_6\text{Mn}_3\text{Zr}_3\text{Nb}(\text{Si}_{25}\text{O}_{73})(\text{O}, \text{OH}, \text{H}_2\text{O})_3(\text{F}, \text{Cl})_2$ | A  | 1996-023  | Denmark (Greenland)         | <i>European Journal of Mineralogy</i> <b>10</b> (1998), 207                                                                            | <i>Crystallography Reports</i> <b>59</b> (2014), 146                                        |
| Kentrolite                   | $\text{Pb}_2\text{Mn}^{3+}_2\text{O}_2(\text{Si}_2\text{O}_7)$                                                                                                                        | G  | 1881      | Chile                       | <i>Zeitschrift für Krystallographie und Mineralogie</i> <b>5</b> (1881), 32                                                            | <i>American Mineralogist</i> <b>93</b> (2008), 573                                          |
| Kenyaite                     | $\text{Na}_2\text{Si}_{22}\text{O}_{41}(\text{OH})_8 \cdot 6\text{H}_2\text{O}$                                                                                                       | A  | 1967-018  | Kenya                       | <i>Science</i> <b>157</b> (1967), 1177                                                                                                 | <i>American Mineralogist</i> <b>68</b> (1983), 818                                          |
| Keplerite                    | $\text{Ca}_9(\text{Ca}_{0.5}\square_{0.5})\text{Mg}(\text{PO}_4)_7$                                                                                                                   | A  | 2019-108  | Russia (meteorite) / Israel | <i>American Mineralogist</i> <b>106</b> (2021), 1917                                                                                   |                                                                                             |
| Kerimasite                   | $\text{Ca}_3\text{Zr}_2(\text{SiFe}^{3+}_2)\text{O}_{12}$                                                                                                                             | A  | 2009-029  | Tanzania                    | <i>Mineralogical Magazine</i> <b>74</b> (2010), 803                                                                                    | <i>Mineralogical Magazine</i> <b>79</b> (2015), 715                                         |
| Kermesite                    | $\text{Sb}_2\text{OS}_2$                                                                                                                                                              | G  | 1843      | Germany                     | Practical mineralogy. Bailliere, London (1843), 61                                                                                     | <i>Minerals</i> <b>14</b> (2024), 505                                                       |
| Kernite                      | $\text{Na}_2\text{B}_4\text{O}_6(\text{OH})_2 \cdot 3\text{H}_2\text{O}$                                                                                                              | G  | 1927      | USA                         | <i>American Mineralogist</i> <b>12</b> (1927), 24                                                                                      | <i>American Mineralogist</i> <b>105</b> (2020), 1424                                        |
| Kernowite                    | $\text{Cu}_2\text{Fe}^{3+}(\text{AsO}_4)(\text{OH})_4(\text{H}_2\text{O})_4$                                                                                                          | A  | 2020-053  | United Kingdom              | <i>Mineralogical Magazine</i> <b>85</b> (2021), 283                                                                                    |                                                                                             |
| Kesebolite-(Ce)              | $\text{CeCa}_2\text{Mn}(\text{AsO}_4)(\text{SiO}_3)_3$                                                                                                                                | A  | 2019-097  | Sweden                      | <i>Minerals</i> <b>10</b> (2020), 385                                                                                                  |                                                                                             |
| Kësterite                    | $\text{Cu}_2\text{ZnSnS}_4$                                                                                                                                                           | G  | 1956      | Russia                      | <i>Trudy Vsesouznogo Magadansk Nauchno-Issledovatel'skii Institut Magadan</i> <b>2</b> (1956), 76                                      | <i>Canadian Mineralogist</i> <b>41</b> (2003), 639                                          |
| Kettnerite                   | $\text{CaBiO}(\text{CO}_3)\text{F}$                                                                                                                                                   | G  | 1956      | Czech Republic              | <i>Časopis pro Mineralogii a Geologii</i> <b>1</b> (1956), 195                                                                         | <i>European Journal of Mineralogy</i> <b>19</b> (2007), 411                                 |
| Keutschite                   | $\text{Cu}_2\text{AgAsS}_4$                                                                                                                                                           | A  | 2014-038  | Peru                        | <i>European Journal of Mineralogy</i> <b>38</b> (2026), 1                                                                              |                                                                                             |

|                 |                                                                                                                                              |    |           |                    |                                                                                                                                        |                                                                                     |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------|----|-----------|--------------------|----------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Keyite          | $(\square_{0.5}\text{Cu}_{0.5})\text{CuCdZn}_2(\text{AsO}_4)_3(\text{H}_2\text{O})$                                                          | A  | 1975-002  | Namibia            | <i>Mineralogical Record</i> <b>8</b> (1977), 87                                                                                        | <i>Zeitschrift für Kristallographie</i> <b>228</b> (2013), 620                      |
| Keystoneite     | $\text{Mg}_{0.5}\text{NiFe}^{3+}(\text{Te}^{4+}\text{O}_3)_3(\text{H}_2\text{O})_4$                                                          | A  | 1987-049  | USA                | <i>Canadian Mineralogist</i> <b>59</b> (2021), 355                                                                                     |                                                                                     |
| Khademite       | $\text{Al}(\text{SO}_4)\text{F}(\text{H}_2\text{O})_5$                                                                                       | Rd | 1973-028  | Iran               | <i>Comptes Rendus des Seances de l'Académie des Sciences, Série C</i> <b>277</b> (1973), 1585                                          | <i>Mineralogical Magazine</i> <b>84</b> (2020), 540                                 |
| Khaidarkanite   | $\text{Cu}_4\text{Al}_3(\text{OH})_{14}\text{F}_3(\text{H}_2\text{O})_2$                                                                     | A  | 1998-013  | Kyrgyzstan         | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>128(3)</b> (1999), 58                                                  | <i>Canadian Mineralogist</i> <b>47</b> (2009), 635                                  |
| Khamrabaevite   | TiC                                                                                                                                          | A  | 1983-059  | Uzbekistan         | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>113</b> (1984), 697                                                      |                                                                                     |
| Khanneshite     | $(\text{Na,Ca})_3(\text{Ba,Sr,Ce,Ca})_3(\text{CO}_3)_5$                                                                                      | A  | 1981-025  | Afghanistan        | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>111</b> (1982), 321                                                      | <i>Crystallography Reports</i> <b>47</b> (2002), 39                                 |
| Kharaelakhite   | $(\text{Cu,Pt,Pb,Fe,Ni})_9\text{S}_8$                                                                                                        | A  | 1983-080  | Russia             | <i>Mineralogiceskij Zhurnal</i> <b>7</b> (1985), 78                                                                                    |                                                                                     |
| Khatyrkite      | $\text{CuAl}_2$                                                                                                                              | A  | 1983-085  | Russia (meteorite) | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>114</b> (1985), 90                                                       | <i>Journal of Solid State Chemistry</i> <b>179</b> (2006), 1707                     |
| Khesinite       | $\text{Ca}_4(\text{Mg}_2\text{Fe}^{3+}_{10})\text{O}_4(\text{Fe}^{3+}_{10}\text{Si}_2)\text{O}_{36}$                                         | A  | 2014-033  | Israel             | <i>European Journal of Mineralogy</i> <b>29</b> (2017), 101                                                                            | <i>Crystallography Reports</i> <b>66</b> (2021), 66                                 |
| Khibinskite     | $\text{K}_2\text{ZrSi}_2\text{O}_7$                                                                                                          | A  | 1973-014  | Russia             | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>103</b> (1974), 110                                                      | <i>Doklady Akademii Nauk SSSR</i> <b>231</b> (1976), 1351                           |
| Khinite         | $\text{Cu}^{2+}_3\text{PbTe}^{6+}_6(\text{OH})_2$                                                                                            | A  | 1978-035  | USA                | <i>American Mineralogist</i> <b>63</b> (1978), 1016                                                                                    | <i>Mineralogical Magazine</i> <b>72</b> (2008), 763                                 |
| Khmaralite      | $\text{Mg}_4(\text{Mg}_3\text{Al}_9)\text{O}_4[\text{Si}_5\text{Be}_2\text{Al}_5\text{O}_{36}]$                                              | A  | 1998-027  | Antarctica         | <i>American Mineralogist</i> <b>84</b> (1999), 1650                                                                                    | <i>American Mineralogist</i> <b>89</b> (2004), 627                                  |
| Khomyakovite    | $\text{Na}_{12}\text{Sr}_3\text{Ca}_6\text{Fe}_3\text{Zr}_3\text{W}(\text{Si}_{25}\text{O}_{73})(\text{O,OH,H}_2\text{O})_3(\text{Cl,OH})_2$ | A  | 1998-042  | Canada             | <i>Canadian Mineralogist</i> <b>37</b> (1999), 893                                                                                     |                                                                                     |
| Khorixasite     | $(\text{Bi}_{0.67}\square_{0.33})\text{Cu}(\text{VO}_4)(\text{OH})$                                                                          | A  | 2016-048  | Namibia            | CNMNC Newsletter 33 - <i>Mineralogical Magazine</i> <b>80</b> (2016), 1135                                                             |                                                                                     |
| Khrenovite      | $\text{Na}_3\text{Fe}^{3+}_2(\text{AsO}_4)_3$                                                                                                | A  | 2017-105  | Russia             | <i>Mineralogical Magazine</i> <b>86</b> (2022), 897                                                                                    |                                                                                     |
| Khrstovite-(Ce) | $\text{CaCe}(\text{MgAlMn}^{2+})(\text{Si}_2\text{O}_7)(\text{SiO}_4)\text{F}(\text{OH})$                                                    | A  | 1991-055  | Kyrgyzstan         | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>122(3)</b> (1993), 103                                                 | <i>Soviet Physics - Crystallography</i> <b>36</b> (1991), 172                       |
| Khurayyimite    | $\text{Ca}_7\text{Zn}_4(\text{Si}_2\text{O}_7)_2(\text{OH})_{10}(\text{H}_2\text{O})_4$                                                      | A  | 2018-140  | Jordan             | <i>Mineralogy and Petrology</i> <b>117</b> (2023), 191                                                                                 |                                                                                     |
| Khvorovite      | $\text{Pb}_4\text{Ca}_2[\text{Si}_8\text{B}_2(\text{SiB})\text{O}_{28}]\text{F}$                                                             | A  | 2014-050  | Tajikistan         | <i>Mineralogical Magazine</i> <b>79</b> (2015), 949                                                                                    |                                                                                     |
| Kiddcreekite    | $\text{Cu}_6\text{WSnS}_8$                                                                                                                   | A  | 1982-106  | Canada             | <i>Canadian Mineralogist</i> <b>22</b> (1984), 227                                                                                     | <i>Mineralogical Magazine</i> <b>78</b> (2014), 1517                                |
| Kidodite        | $\text{BaMg}_2\text{Fe}_{16}\text{O}_{27}$                                                                                                   | A  | 2025-043  | Israel             | CNMNC Newsletter 88 - <i>Mineralogical Magazine</i> <b>90</b> (2026), 192; <i>European Journal of Mineralogy</i> <b>37</b> (2025), 921 |                                                                                     |
| Kidwellite      | $\text{NaFe}^{3+}_{9+x}(\text{PO}_4)_6(\text{OH})_{11}(\text{H}_2\text{O})_3$ [x ≈ 0.33]                                                     | A  | 1974-024  | USA                | <i>Mineralogical Magazine</i> <b>42</b> (1978), 137                                                                                    | <i>Mineralogical Magazine</i> <b>68</b> (2004), 147                                 |
| Kieftite        | $\text{CoSb}_3$                                                                                                                              | A  | 1991-052  | Sweden             | <i>Canadian Mineralogist</i> <b>32</b> (1994), 179                                                                                     | <i>Ultramicroscopy</i> <b>111</b> (2011), 847                                       |
| Kieserite       | $\text{Mg}(\text{SO}_4)(\text{H}_2\text{O})$                                                                                                 | A  | 1967 s.p. | Germany            | <i>Nova Acta Leopoldina</i> <b>27</b> (1860), 634                                                                                      | <i>American Mineralogist</i> <b>105</b> (2020), 1472                                |
| Kihlmanite-(Ce) | $\text{Ce}_2\text{TiO}_2(\text{SiO}_4)(\text{HCO}_3)_2(\text{H}_2\text{O})$                                                                  | A  | 2012-081  | Russia             | <i>Mineralogical Magazine</i> <b>78</b> (2014), 483                                                                                    | <i>Zapiski Rossiyskogo Mineralogicheskogo Obshchestva</i> <b>146(2)</b> (2017), 113 |
| Kilchoanite     | $\text{Ca}_6(\text{SiO}_4)(\text{Si}_3\text{O}_{10})$                                                                                        | G  | 1961      | United Kingdom     | <i>Nature</i> <b>189</b> (1961), 743                                                                                                   | <i>American Mineralogist</i> <b>97</b> (2012), 503                                  |
| Killalaite      | $\text{Ca}_{6.4}[\text{H}_{0.6}\text{Si}_2\text{O}_7]_2(\text{OH})_2$                                                                        | A  | 1973-033  | Ireland            | <i>Mineralogical Magazine</i> <b>39</b> (1974), 544                                                                                    | <i>Mineralogical Magazine</i> <b>76</b> (2012), 455                                 |

|                |                                                                                                                                                         |    |           |                                  |                                                                                                       |                                                              |
|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----------|----------------------------------|-------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|
| Kimrobinsonite | Ta(OH) <sub>3</sub> (O,CO <sub>3</sub> )                                                                                                                | A  | 1983-023  | Australia                        | <i>Canadian Mineralogist</i> <b>23</b> (1985), 573                                                    |                                                              |
| Kimuraite-(Y)  | CaY <sub>2</sub> (CO <sub>3</sub> ) <sub>4</sub> ·6H <sub>2</sub> O                                                                                     | A  | 1984-073  | Japan                            | <i>American Mineralogist</i> <b>71</b> (1986), 1028                                                   |                                                              |
| Kimzeyite      | Ca <sub>3</sub> Zr <sub>2</sub> (SiAl <sub>2</sub> )O <sub>12</sub>                                                                                     | A  | 1967 s.p. | USA                              | <i>Science</i> <b>127</b> (1958), 1343                                                                | <i>Acta Crystallographica</i> <b>B72</b> (2016), 846         |
| Kingite        | Al <sub>3</sub> (PO <sub>4</sub> ) <sub>2</sub> F <sub>2</sub> (OH)(H <sub>2</sub> O) <sub>5</sub> ·2H <sub>2</sub> O                                   | G  | 1957      | Australia                        | <i>Mineralogical Magazine</i> <b>31</b> (1957), 351                                                   | <i>Canadian Mineralogist</i> <b>42</b> (2004), 135           |
| Kingsgateite   | ZrMo <sup>6+</sup> <sub>2</sub> O <sub>7</sub> (OH) <sub>2</sub> (H <sub>2</sub> O) <sub>2</sub>                                                        | A  | 2019-048  | Australia                        | <i>Mineralogical Magazine</i> <b>86</b> (2022), 486                                                   |                                                              |
| Kingsmountite  | Ca <sub>3</sub> MnFe <sup>2+</sup> Al <sub>4</sub> (PO <sub>4</sub> ) <sub>6</sub> (OH) <sub>4</sub> (H <sub>2</sub> O) <sub>12</sub>                   | Rd | 2019 s.p. | USA                              | <i>Canadian Mineralogist</i> <b>17</b> (1979), 579                                                    | <i>European Journal of Mineralogy</i> <b>31</b> (2019), 1007 |
| Kingstonite    | Rh <sub>3</sub> S <sub>4</sub>                                                                                                                          | A  | 1993-046  | Ethiopia                         | <i>Mineralogical Magazine</i> <b>69</b> (2005), 447                                                   |                                                              |
| Kinichilite    | Mg <sub>0.5</sub> Mn <sup>2+</sup> Fe <sup>3+</sup> (Te <sup>4+</sup> O <sub>3</sub> ) <sub>3</sub> (H <sub>2</sub> O) <sub>4.5</sub>                   | A  | 1979-031  | Japan                            | <i>Mineralogical Journal</i> <b>10</b> (1981), 333                                                    | <i>European Journal of Mineralogy</i> <b>7</b> (1995), 509   |
| Kinoite        | Ca <sub>2</sub> Cu <sub>2</sub> Si <sub>3</sub> O <sub>10</sub> (H <sub>2</sub> O) <sub>2</sub>                                                         | A  | 1969-037  | USA                              | <i>American Mineralogist</i> <b>55</b> (1970), 709                                                    | <i>American Mineralogist</i> <b>56</b> (1971), 193           |
| Kinoshitalite  | BaMg <sub>3</sub> (Si <sub>2</sub> Al <sub>2</sub> O <sub>10</sub> )(OH) <sub>2</sub>                                                                   | A  | 1973-011  | Japan                            | <i>Chigaku Kenkyu</i> <b>24</b> (1973), 181                                                           | <i>American Mineralogist</i> <b>85</b> (2000), 242           |
| Kintoreite     | PbFe <sup>3+</sup> <sub>3</sub> (PO <sub>4</sub> )(PO <sub>3</sub> OH)(OH) <sub>6</sub>                                                                 | A  | 1992-045  | Australia                        | <i>Mineralogical Magazine</i> <b>59</b> (1995), 143                                                   | <i>Mineralogical Magazine</i> <b>86</b> (2022), 548          |
| Kipushite      | Cu <sub>6</sub> (PO <sub>4</sub> ) <sub>2</sub> (OH) <sub>6</sub> (H <sub>2</sub> O)                                                                    | A  | 1983-046  | Democratic Republic of the Congo | <i>Canadian Mineralogist</i> <b>23</b> (1985), 35                                                     |                                                              |
| Kircherite     | [Na <sub>5</sub> Ca <sub>2</sub> K](Si <sub>6</sub> Al <sub>6</sub> O <sub>24</sub> )(SO <sub>4</sub> ) <sub>2</sub> (H <sub>2</sub> O) <sub>0.33</sub> | A  | 2009-084  | Italy                            | <i>American Mineralogist</i> <b>97</b> (2012), 1494                                                   |                                                              |
| Kirchhoffite   | CsBSi <sub>2</sub> O <sub>6</sub>                                                                                                                       | A  | 2009-094  | Tajikistan                       | <i>Canadian Mineralogist</i> <b>50</b> (2012), 523                                                    |                                                              |
| Kirkiite       | Pb <sub>10</sub> Bi <sub>3</sub> As <sub>3</sub> S <sub>19</sub>                                                                                        | A  | 1984-030  | Greece                           | <i>Bulletin de Minéralogie</i> <b>108</b> (1985), 667                                                 | <i>Canadian Mineralogist</i> <b>44</b> (2006), 177           |
| Kirschsteinite | CaFe <sup>2+</sup> (SiO <sub>4</sub> )                                                                                                                  | G  | 1957      | Democratic Republic of the Congo | <i>Mineralogical Magazine</i> <b>31</b> (1957), 698                                                   | <i>European Journal of Mineralogy</i> <b>9</b> (1997), 969   |
| Kiryuite       | NaMnAl(PO <sub>4</sub> )F <sub>3</sub>                                                                                                                  | A  | 2021-041  | Japan                            | <i>Journal of Mineralogical and Petrological Sciences</i> <b>118</b> (2023), 230605                   |                                                              |
| Kishonite      | VH <sub>2</sub>                                                                                                                                         | A  | 2020-023  | Israel                           | <i>Minerals</i> <b>10</b> (2020), 1118                                                                |                                                              |
| Kitagohaite    | Pt <sub>7</sub> Cu                                                                                                                                      | A  | 2013-114  | Democratic Republic of the Congo | <i>Mineralogical Magazine</i> <b>78</b> (2014), 739                                                   |                                                              |
| Kitkaite       | NiTeSe                                                                                                                                                  | A  | 1968 s.p. | Finland                          | <i>American Mineralogist</i> <b>50</b> (1965), 581                                                    |                                                              |
| Kittatinnyite  | Ca <sub>2</sub> Mn <sup>2+</sup> Mn <sup>3+</sup> <sub>2</sub> (SiO <sub>4</sub> ) <sub>2</sub> (OH) <sub>4</sub> ·9H <sub>2</sub> O                    | A  | 1982-083  | USA                              | <i>American Mineralogist</i> <b>68</b> (1983), 1029                                                   |                                                              |
| Kladnoite      | C <sub>6</sub> H <sub>4</sub> (CO) <sub>2</sub> NH                                                                                                      | G  | 1942      | Czech Republic                   | <i>Rozpravy České Akademie</i> <b>52</b> (1942), 4 p.                                                 | <i>Acta Crystallographica</i> <b>B28</b> (1972), 415         |
| Klajite        | MnCu <sub>4</sub> (AsO <sub>4</sub> ) <sub>2</sub> (AsO <sub>3</sub> OH) <sub>2</sub> (H <sub>2</sub> O) <sub>10</sub>                                  | A  | 2010-004  | Hungary                          | <i>European Journal of Mineralogy</i> <b>23</b> (2011), 829                                           | <i>Mineralogical Magazine</i> <b>78</b> (2014), 119          |
| Klaprothite    | Na <sub>6</sub> (UO <sub>2</sub> )(SO <sub>4</sub> ) <sub>4</sub> (H <sub>2</sub> O) <sub>4</sub>                                                       | A  | 2015-087  | USA                              | <i>Mineralogical Magazine</i> <b>81</b> (2017), 753                                                   |                                                              |
| Klebelsbergite | Sb <sup>3+</sup> <sub>4</sub> O <sub>4</sub> (SO <sub>4</sub> )(OH) <sub>2</sub>                                                                        | Rd | 1980 s.p. | Romania                          | <i>Mathematikai és Természettudományi Értesítő</i> <b>46</b> (1929), 19                               | <i>American Mineralogist</i> <b>100</b> (2015), 602          |
| Kleberite      | Fe <sup>3+</sup> Ti <sub>6</sub> O <sub>11</sub> (OH) <sub>5</sub>                                                                                      | A  | 2012-023  | Germany                          | <i>Mineralogical Magazine</i> <b>77</b> (2013), 45                                                    |                                                              |
| Kleemanite     | ZnAl <sub>2</sub> (PO <sub>4</sub> ) <sub>2</sub> (OH) <sub>2</sub> ·3H <sub>2</sub> O                                                                  | A  | 1978-043  | Australia                        | <i>Mineralogical Magazine</i> <b>43</b> (1979), 93                                                    | <i>Bulletin Mineralogie Petrologie</i> <b>31</b> (2023), 105 |
| Kleinite       | (Hg <sub>2</sub> N)(Cl,SO <sub>4</sub> )·nH <sub>2</sub> O                                                                                              | G  | 1905      | USA                              | <i>Sitzungsberichte der Königlich Preussischen Akademie der Wissenschaften</i> <b>21</b> (1905), 1091 | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1996), 49 |
| Klöchite       | (Fe <sup>2+</sup> Fe <sup>3+</sup> )□ <sub>2</sub> KZn <sub>3</sub> (Si <sub>12</sub> O <sub>30</sub> )                                                 | A  | 2007-054  | Austria                          | <i>Canadian Mineralogist</i> <b>49</b> (2011), 1115                                                   |                                                              |
| Klockmannite   | Cu <sub>5.2</sub> Se <sub>6</sub>                                                                                                                       | G  | 1928      | Argentina                        | <i>Centralblatt für Mineralogie, Geologie und Paläontologie</i> (1928), 225                           | <i>Acta Crystallographica</i> <b>B58</b> (2002), 437         |

|               |                                                                      |    |           |                                  |                                                                                       |                                                                                                            |
|---------------|----------------------------------------------------------------------|----|-----------|----------------------------------|---------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|
| Klyuchevskite | $K_3Cu_3Fe^{3+}O_2(SO_4)_4$                                          | A  | 1987-027  | Russia                           | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>118(1)</b> (1989), 70 | <i>Mineralogical Magazine</i> <b>56</b> (1992), 411                                                        |
| Knasibfite    | $K_3Na_4(SiF_6)_3(BF_4)$                                             | A  | 2006-042  | Italy                            | <i>Canadian Mineralogist</i> <b>46</b> (2008), 447                                    | <i>Journal of Volcanology and Seismology</i> <b>14</b> (2020), 177                                         |
| Knorringite   | $Mg_3Cr_2(SiO_4)_3$                                                  | A  | 1968-010  | Lesotho                          | <i>American Mineralogist</i> <b>53</b> (1968), 1833                                   | <i>American Mineralogist</i> <b>95</b> (2010), 59                                                          |
| Koashvite     | $Na_6CaTiSi_6O_{18}$                                                 | A  | 1973-026  | Russia                           | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>103</b> (1974), 559     | <i>Mineralogicheskij Zhurnal</i> <b>2(5)</b> (1980), 40                                                    |
| Kobeite-(Y)   | $(Y,U)(Ti,Nb)_2(O,OH)_6(?)$                                          | Rn | 1987 s.p. | Japan                            | <i>Journal of the Geological Society of Japan</i> <b>56</b> (1950), 509               | <i>Mineralogical Journal</i> <b>3</b> (1961), 139                                                          |
| Kobellite     | $Pb_{11}(Cu,Fe)_2(Bi,Sb)_{15}S_{35}$                                 | G  | 1841      | Sweden                           | <i>Svenska Vetenskaps-Akademien Handlingar</i> (1841), 188                            | <i>Journal of Mineralogy and Geochemistry</i> <b>191</b> (2013), 109                                       |
| Kobokoboite   | $Al_6(PO_4)_4(OH)_6 \cdot 11H_2O$                                    | A  | 2009-057  | Democratic Republic of the Congo | <i>European Journal of Mineralogy</i> <b>22</b> (2010), 305                           |                                                                                                            |
| Kobyrashevite | $Cu_5(SO_4)_2(OH)_6(H_2O)_4$                                         | A  | 2011-066  | Russia                           | <i>Mineralogy and Petrology</i> <b>107</b> (2013), 201                                |                                                                                                            |
| Kochite       | $Ca_2(MnZr)Na_3Ti(Si_2O_7)_2(OF)F_2$                                 | Rd | 2002-012  | Denmark (Greenland)              | <i>European Journal of Mineralogy</i> <b>15</b> (2003), 551                           |                                                                                                            |
| Kochkarite    | $PbBi_4Te_7$                                                         | A  | 1988-030  | Russia                           | <i>Geologiya Rudnykh Mestorozhdenii</i> <b>31</b> (1989), 98                          | <i>Inorganic Materials</i> <b>40</b> (2004), 1264                                                          |
| Kochsándorite | $CaAl_2(CO_3)_2(OH)_4 \cdot H_2O$                                    | A  | 2004-037  | Hungary                          | <i>Canadian Mineralogist</i> <b>45</b> (2007), 479                                    |                                                                                                            |
| Kodamaite     | $Na_3(Ca_5Na)Si_{16}O_{36}(OH)_4F_2 \cdot (14-x)H_2O$ ( $x \sim 5$ ) | A  | 2018-134  | Canada                           | <i>Canadian Journal of Mineralogy and Petrology</i> <b>62</b> (2024), 133             |                                                                                                            |
| Koehlinite    | $Bi_2MoO_6$                                                          | G  | 1914      | Germany                          | <i>Journal of the Washington Academy of Sciences</i> <b>4</b> (1914), 354             | <i>Acta Crystallographica</i> <b>C40</b> (1984), 2001                                                      |
| Koenenite     | $Na_4Mg_9Al_4Cl_{12}(OH)_{22}$                                       | G  | 1902      | Germany                          | <i>Centralblatt für Mineralogie, Geologie und Paläontologie</i> (1902), 493           | <i>Zeitschrift für Kristallographie</i> <b>126</b> (1968), 7                                               |
| Kogarkoite    | $Na_3(SO_4)F$                                                        | A  | 1970-038  | Russia                           | <i>American Mineralogist</i> <b>58</b> (1973), 116                                    | <i>Mineralogical Magazine</i> <b>43</b> (1980), 753                                                        |
| Kojonenite    | $Pd_{7-x}SnTe_2$ ( $0.3 \leq x \leq 0.8$ )                           | A  | 2013-132  | USA                              | <i>American Mineralogist</i> <b>100</b> (2015), 447                                   |                                                                                                            |
| Kokchetavite  | $K(AlSi_3O_8)$                                                       | A  | 2004-011  | Kazakhstan                       | <i>Contributions to Mineralogy and Petrology</i> <b>148</b> (2004), 380               | <i>American Mineralogist</i> <b>109</b> (2024), 1284                                                       |
| Kokinosite    | $Na_2Ca_2(V_{10}O_{28})(H_2O)_{22} \cdot 2H_2O$                      | A  | 2013-099  | USA                              | <i>Canadian Mineralogist</i> <b>52</b> (2014), 15                                     |                                                                                                            |
| Koksharovite  | $CaMg_2Fe^{3+}_4(VO_4)_6$                                            | A  | 2012-092  | Russia                           | <i>European Journal of Mineralogy</i> <b>26</b> (2014), 667                           |                                                                                                            |
| Koktaite      | $(NH_4)_2Ca(SO_4)_2 \cdot H_2O$                                      | G  | 1948      | Czech Republic                   | <i>Acta Academiae Scientiarum Naturalium Moravo-Silesiacae</i> <b>20</b> (1948), 1    | <i>Trudy Instituta Geologii i Geofiziki, Akademiya Nauk SSSR, Sibirskoe Otdelenie</i> <b>487</b> (1981), 4 |
| Kolarite      | $PbTeCl_2$                                                           | A  | 1983-081  | India                            | <i>Canadian Mineralogist</i> <b>23</b> (1985), 501                                    |                                                                                                            |
| Kolbeckite    | $Sc(PO_4)(H_2O)_2$                                                   | A  | 1987 s.p. | Germany                          | <i>Jahrbuch für das Berg-und Hüttenwesen im Sachsen</i> <b>100</b> (1926), 73         | <i>Acta Crystallographica</i> <b>C63</b> (2007), i91                                                       |
| Kolfanite     | $Ca_2Fe^{3+}_3O_2(AsO_4)_3 \cdot 2H_2O$                              | A  | 1981-017  | Russia                           | <i>Mineralogicheskij Zhurnal</i> <b>4(2)</b> (1982), 90                               |                                                                                                            |
| Kolicite      | $Zn_4Mn^{2+}_7(AsO_4)_2(SiO_4)_2(OH)_8$                              | A  | 1978-076  | USA                              | <i>American Mineralogist</i> <b>64</b> (1979), 708                                    | <i>American Mineralogist</i> <b>65</b> (1980), 483                                                         |
| Kolitschite   | $Pb[Zn_{0.5}, \square_{0.5}]Fe_3(AsO_4)_2(OH)_6$                     | A  | 2008-063  | Australia                        | <i>Australian Journal of Mineralogy</i> <b>14</b> (2008), 63                          | <i>Canadian Mineralogist</i> <b>46</b> (2008), 1355                                                        |
| Kollerite     | $(NH_4)_2Fe^{3+}(SO_3)_2(OH) \cdot H_2O$                             | A  | 2018-131  | Hungary                          | <i>Mineralogy and Petrology</i> <b>117</b> (2023), 231                                |                                                                                                            |

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| Kolovratite    | $(\text{Ni,Zn})_x(\text{VO}_4) \cdot n\text{H}_2\text{O}$                                                                            | Q  | 1922     | Kyrgyzstan                       | <i>Comptes Rendus de l'Academie des Sciences de Russie</i> (1922), 37                                                                  | <i>Canadian Mineralogist</i> <b>7</b> (1962), 311             |
| Kolskyite      | $(\text{Ca}\square)\text{Ti}_2\text{Na}_2\text{Ti}_2(\text{Si}_2\text{O}_7)_2\text{O}_4(\text{H}_2\text{O})_2(\text{H}_2\text{O})_5$ | Rd | 2013-005 | Russia                           | <i>Canadian Mineralogist</i> <b>51</b> (2013), 921                                                                                     |                                                               |
| Kolwezite      | $\text{CuCo}(\text{CO}_3)(\text{OH})_2$                                                                                              | Rn | 1979-017 | Democratic Republic of the Congo | <i>Bulletin de Minéralogie</i> <b>103</b> (1980), 179                                                                                  | <i>European Journal of Mineralogy</i> <b>30</b> (2018), 609   |
| Kolymite       | $\text{Cu}_7\text{Hg}_6$                                                                                                             | A  | 1979-046 | Russia                           | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>109</b> (1980), 206                                                      |                                                               |
| Komarovite     | $(\text{Ca,Sr,Na})_{6-x}(\text{Nb,Ti})_6(\text{Si}_4\text{O}_{12})(\text{O,OH,F})_{16} \cdot n\text{H}_2\text{O}$                    | A  | 1971-011 | Russia                           | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>100</b> (1971), 599                                                      | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (2002), 497 |
| Kombatite      | $\text{Pb}_{14}\text{O}_9(\text{VO}_4)_2\text{Cl}_4$                                                                                 | A  | 1985-056 | Namibia                          | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1986), 519                                                                          | <i>American Mineralogist</i> <b>79</b> (1994), 550            |
| Komkovite      | $\text{BaZrSi}_3\text{O}_9(\text{H}_2\text{O})_3$                                                                                    | A  | 1988-032 | Russia                           | <i>Mineralogicheskij Zhurnal</i> <b>12(3)</b> (1990), 69                                                                               | <i>Doklady Akademii Nauk SSSR</i> <b>320</b> (1991), 1384     |
| Konderite      | $\text{PbCu}_3\text{Rh}_8\text{S}_{16}$                                                                                              | A  | 1983-053 | Russia                           | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>113</b> (1984), 703                                                      |                                                               |
| Koninckite     | $\text{Fe}^{3+}(\text{PO}_4)(\text{H}_2\text{O})_2 \cdot 0.75\text{H}_2\text{O}$                                                     | G  | 1884     | Belgium                          | Société Géologique de Belgique, <i>Mémoires</i> , <b>11</b> (1883-1884), 274                                                           | <i>Mineralogical Magazine</i> <b>79</b> (2015), 1159          |
| Kononovite     | $\text{NaMg}(\text{SO}_4)\text{F}$                                                                                                   | A  | 2013-116 | Russia                           | <i>European Journal of Mineralogy</i> <b>27</b> (2015), 575                                                                            |                                                               |
| Konyaite       | $\text{Na}_2\text{Mg}(\text{SO}_4)_2(\text{H}_2\text{O})_5$                                                                          | A  | 1981-003 | Turkey                           | <i>American Mineralogist</i> <b>67</b> (1982), 1035                                                                                    | <i>American Mineralogist</i> <b>94</b> (2009), 1005           |
| Konzettite     | $\text{CaMn}^{4+}\text{Te}^{6+}\text{O}_6$                                                                                           | A  | 2025-051 | Mexico                           | CNMNC Newsletter 88 - <i>Mineralogical Magazine</i> <b>90</b> (2026), 192; <i>European Journal of Mineralogy</i> <b>37</b> (2025), 921 |                                                               |
| Kopernikite    | $\text{K}(\text{Ti}_7\text{Cr})\text{O}_{16}$                                                                                        | A  | 2025-082 | Poland (meteorite)               | <i>Mineralogical Magazine</i> <b>90</b> (2026), 625                                                                                    |                                                               |
| Kopylovite     | $\text{K}_2\text{Ti}(\text{Si}_3\text{O}_9)$                                                                                         | A  | 2025-084 | USA                              | CNMNC Newsletter 89 - <i>Mineralogical Magazine</i> <b>90</b> (2026), 481; <i>European Journal of Mineralogy</i> <b>38</b> (2026), 117 |                                                               |
| Koragoite      | $\text{Mn}^{2+}_2\text{Mn}^{3+}\text{Nb}_2(\text{Nb,Ta})_3\text{W}_2\text{O}_{20}$                                                   | A  | 1994-049 | Tajikistan                       | <i>Transactions (Doklady) of the Russian Academy of Sciences, Earth Science Section</i> <b>353A</b> (1996), 341                        | <i>Kristallografiya</i> <b>40</b> (1995), 469                 |
| Koritnigite    | $\text{Zn}(\text{AsO}_3\text{OH})(\text{H}_2\text{O})$                                                                               | A  | 1978-008 | Namibia                          | <i>Tschermaks Mineralogische und Petrographische Mitteilungen</i> <b>26</b> (1979), 51                                                 | <i>Mineralogical Magazine</i> <b>87</b> (2023), 194           |
| Kornelite      | $\text{Fe}^{3+}_2(\text{SO}_4)_3(\text{H}_2\text{O})_6 \cdot 1.75\text{H}_2\text{O}$                                                 | G  | 1888     | Slovakia                         | <i>Magyar Tudományos Akadémia Értesítője</i> <b>22</b> (1888), 131                                                                     | <i>American Mineralogist</i> <b>94</b> (2009), 1620           |
| Kornerupine    | $(\text{Mg,Fe}^{2+},\text{Al},\square)_{10}(\text{Si,Al,B})_5\text{O}_{21}(\text{OH,F})_2$                                           | G  | 1884     | Denmark (Greenland)              | <i>Meddelelser om Grønland</i> <b>7</b> (1884), 19                                                                                     | <i>Canadian Mineralogist</i> <b>47</b> (2009), 233            |
| Korobitsynite  | $(\text{Na},\square)_4\text{Ti}_2(\text{Si}_4\text{O}_{12})(\text{O,OH})_2 \cdot 4\text{H}_2\text{O}$                                | A  | 1998-019 | Russia                           | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>128(3)</b> (1999), 72                                                  | <i>Doklady Akademii Nauk</i> <b>357</b> (1997), 364           |
| Korshunovskite | $\text{Mg}_2\text{Cl}(\text{OH})_3(\text{H}_2\text{O})_3 \cdot \text{H}_2\text{O}$                                                   | A  | 1980-083 | Russia                           | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>111</b> (1982), 324                                                      | <i>Acta Crystallographica</i> <b>6</b> (1953), 40             |
| Koryakite      | $\text{NaKMg}_2\text{Al}_2(\text{SO}_4)_6$                                                                                           | A  | 2018-013 | Russia                           | <i>Mineralogical Magazine</i> <b>84</b> (2020), 283                                                                                    |                                                               |

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| Korzhinskite    | $\text{CaB}_2\text{O}_4 \cdot 0.5\text{H}_2\text{O}$                                                                                       | A  | 1967 s.p. | Russia               | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>92</b> (1963), 555                                                       | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>125(4)</b> (1996), 60 |
| Kosmochlor      | $\text{NaCr}^{3+}\text{Si}_2\text{O}_6$                                                                                                    | A  | 1988 s.p. | Mexico (meteorite)   | <i>Zeitschrift für Kristallographie und Mineralogie</i> <b>27</b> (1897), 586                                                          | <i>Physics and Chemistry of Minerals</i> <b>41</b> (2014), 695                        |
| Kosnarite       | $\text{KZr}_2(\text{PO}_4)_3$                                                                                                              | A  | 1991-022  | USA                  | <i>American Mineralogist</i> <b>78</b> (1993), 653                                                                                     | <i>Canadian Mineralogist</i> <b>58</b> (2020), 637                                    |
| Kostovite       | $\text{AuCuTe}_4$                                                                                                                          | A  | 1965-002  | Bulgaria             | <i>American Mineralogist</i> <b>51</b> (1966), 29                                                                                      | <i>Geochemistry, Mineralogy, Petrology</i> <b>42</b> (2005), 1                        |
| Kostylevite     | $\text{K}_2\text{ZrSi}_3\text{O}_9(\text{H}_2\text{O})$                                                                                    | A  | 1982-053  | Russia               | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>112</b> (1983), 469                                                      | <i>Chemistry of Materials</i> <b>13</b> (2001), 355                                   |
| Kotoite         | $\text{Mg}_3(\text{BO}_3)_2$                                                                                                               | G  | 1939      | North Korea          | <i>Mineralogische und Petrographische Mittheilungen</i> <b>50</b> (1939), 441                                                          | <i>Zeitschrift für Kristallographie</i> <b>166</b> (1984), 129                        |
| Kottenheimite   | $\text{Ca}_3\text{Si}(\text{SO}_4)_2(\text{OH})_6(\text{H}_2\text{O})_{12}$                                                                | A  | 2011-038  | Germany              | <i>Canadian Mineralogist</i> <b>50</b> (2012), 55                                                                                      |                                                                                       |
| Köttigite       | $\text{Zn}_3(\text{AsO}_4)_2(\text{H}_2\text{O})_8$                                                                                        | G  | 1850      | Germany              | A System of Mineralogy, 3rd ed. Putnam, New York (1850), 487                                                                           | <i>Minerals</i> <b>10</b> (2020), 548                                                 |
| Kotulskite      | $\text{Pd}(\text{Te,Bi})_{2-x} (x \approx 0.4)$                                                                                            | A  | 1967 s.p. | Russia               | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>92</b> (1963), 33                                                        | <i>Mineralogical Magazine</i> <b>89</b> (2025), 566                                   |
| Koutekite       | $\text{Cu}_5\text{As}_2$                                                                                                                   | G  | 1958      | Czech Republic       | <i>Nature</i> <b>181</b> (1958), 1553                                                                                                  | <i>Ore Geology Reviews</i> <b>80</b> (2017), 1245                                     |
| Kovdorskite     | $\text{Mg}_2(\text{PO}_4)(\text{OH})(\text{H}_2\text{O})_3$                                                                                | A  | 1979-066  | Russia               | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>109</b> (1980), 341                                                      | <i>Acta Crystallographica</i> <b>E68</b> (2012), i12                                  |
| Kozłowskiite    | $\text{Ca}_4\text{Fe}^{2+}\text{Sn}_3(\text{Si}_2\text{O}_7)_2(\text{Si}_2\text{O}_6\text{OH})_2$                                          | A  | 2021-081  | Poland               | <i>Mineralogical Magazine</i> <b>86</b> (2022), 507                                                                                    |                                                                                       |
| Kozoite-(La)    | $\text{La}(\text{CO}_3)(\text{OH})$                                                                                                        | A  | 2002-054  | Japan                | <i>Journal of Mineralogical and Petrological Sciences</i> <b>98</b> (2003), 137                                                        | <i>Zeitschrift für Naturforschung</i> <b>74b</b> (2019), 59                           |
| Kozoite-(Nd)    | $\text{Nd}(\text{CO}_3)(\text{OH})$                                                                                                        | A  | 1998-063  | Japan                | <i>American Mineralogist</i> <b>85</b> (2000), 1076                                                                                    | <i>Zeitschrift für Kristallographie</i> <b>222</b> (2007), 326                        |
| Kozyrevskite    | $\text{Cu}_4\text{O}(\text{AsO}_4)_2$                                                                                                      | A  | 2013-023  | Russia               | <i>Mineralogical Magazine</i> <b>78</b> (2014), 1553                                                                                   |                                                                                       |
| Kraisslite      | $\text{Zn}_3(\text{Mn,Mg})_{25}(\text{Fe}^{3+},\text{Al})(\text{As}^{3+}\text{O}_3)_2[(\text{Si,As}^{5+})\text{O}_4]_{10}(\text{OH})_{16}$ | A  | 1977-003  | USA                  | <i>American Mineralogist</i> <b>63</b> (1978), 938                                                                                     | <i>Mineralogical Magazine</i> <b>76</b> (2012), 2819                                  |
| Králikite       | $\text{BaCl}_2(\text{H}_2\text{O})_2$                                                                                                      | A  | 2019-070a | Czech Republic       | CNMNC Newsletter 81 - <i>Mineralogical Magazine</i> <b>88</b> (2024), 632; <i>European Journal of Mineralogy</i> <b>36</b> (2024), 917 |                                                                                       |
| Krashennikovite | $\text{KNa}_2\text{CaMg}(\text{SO}_4)_3\text{F}$                                                                                           | A  | 2011-044  | Russia               | <i>American Mineralogist</i> <b>97</b> (2012), 1788                                                                                    |                                                                                       |
| Krásnoite       | $\text{Ca}_3\text{Al}_{7.7}\text{Si}_3\text{P}_4\text{O}_{22.9}(\text{OH})_{13.3}\text{F}_2 \cdot 8\text{H}_2\text{O}$                     | Rd | 2017 s.p. | Czech Republic / USA | <i>Mineralogical Magazine</i> <b>76</b> (2012), 625                                                                                    |                                                                                       |
| Krasnoshteinite | $\text{Al}_8[\text{B}_2\text{O}_4(\text{OH})_2](\text{OH})_{16}\text{Cl}_4 \cdot 7\text{H}_2\text{O}$                                      | A  | 2018-077  | Russia               | <i>Crystals</i> <b>10</b> (2020), 301                                                                                                  |                                                                                       |
| Krasnovite      | $\text{Ba}(\text{Al,Mg})(\text{PO}_4,\text{CO}_3)(\text{OH})_2 \cdot \text{H}_2\text{O}$                                                   | A  | 1991-020  | Russia               | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>125(3)</b> (1996), 110                                                 |                                                                                       |
| Kratochvilite   | $\text{C}_{13}\text{H}_{10}$                                                                                                               | G  | 1937      | Czech Republic       | <i>Rozpravy Ceske Akademie, Kl II</i> <b>47</b> (1937), 6 p.                                                                           | <i>Acta Crystallographica</i> <b>C40</b> (1984), 1892                                 |
| Krausite        | $\text{KFe}^{3+}(\text{SO}_4)_2(\text{H}_2\text{O})$                                                                                       | G  | 1931      | USA                  | <i>American Mineralogist</i> <b>16</b> (1931), 352                                                                                     | <i>American Mineralogist</i> <b>71</b> (1986), 202                                    |
| Krauskopfite    | $\text{BaSi}_2\text{O}_5(\text{H}_2\text{O})_3$                                                                                            | A  | 1964-008  | USA                  | <i>American Mineralogist</i> <b>50</b> (1965), 314                                                                                     | <i>Atti della Accademia Nazionale dei Lincei, Ser. VIII</i> <b>42</b> (1967), 859     |
| Krautite        | $\text{Mn}(\text{AsO}_3\text{OH})(\text{H}_2\text{O})$                                                                                     | A  | 1974-028  | Romania              | <i>Bulletin de la Société Française de Minéralogie et de Cristallographie</i> <b>98</b> (1975), 78                                     | <i>Mineralogical Magazine</i> <b>87</b> (2023), 194                                   |

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| Kravtsovite    | $\text{PdAg}_2\text{S}$                                                                        | A | 2016-092  | Russia              | <i>European Journal of Mineralogy</i> <b>29</b> (2017), 597                                                                            |                                                                                           |
| Kreiterite     | $\text{CsLi}_2\text{Fe}^{3+}\text{Si}_4\text{O}_{10}\text{F}_2$                                | A | 2019-041  | Tajikistan          | <i>Canadian Journal of Mineralogy and Petrology</i> <b>63</b> (2025), 103                                                              |                                                                                           |
| Kremersite     | $(\text{NH}_4)_2\text{Fe}^{3+}\text{Cl}_5(\text{H}_2\text{O})$                                 | G | 1853      | Italy               | Das Mohs'sche Mineralsystem. Gerold, Wien (1853), 9                                                                                    | <i>Minerals</i> <b>9</b> (2019), 486                                                      |
| Krennerite     | $\text{Au}_3\text{AgTe}_8$                                                                     | G | 1877      | Romania             | <i>Zeitschrift für Krystallographie und Mineralogie</i> <b>1</b> (1877), 614                                                           | <i>Acta Crystallographica</i> <b>B78</b> (2022), 117                                      |
| Krettnichite   | $\text{PbMn}^{3+}_2(\text{VO}_4)_2(\text{OH})_2$                                               | A | 1998-044  | Germany             | <i>European Journal of Mineralogy</i> <b>13</b> (2001), 145                                                                            |                                                                                           |
| Kribergite     | $\text{Al}_5(\text{PO}_4)_3(\text{SO}_4)(\text{OH})_4 \cdot 4\text{H}_2\text{O}$               | G | 1945      | Sweden              | <i>Geologiska Föreningens i Stockholm Förhandlingar</i> <b>67</b> (1945), 78                                                           | <i>Mineralogical Magazine</i> <b>53</b> (1989), 385                                       |
| Krieselite     | $\text{Al}_2(\text{GeO}_4)\text{F}_2$                                                          | A | 2000-043a | Namibia             | <i>Neues Jahrbuch für Mineralogie Abhandlungen</i> <b>187</b> (2010), 33                                                               | <i>Spectrochimica Acta Part A</i> <b>288</b> (2023), 122137                               |
| Krinovite      | $\text{Na}_4[\text{Mg}_8\text{Cr}^{3+}_4]\text{O}_4[\text{Si}_{12}\text{O}_{36}]$              | A | 1967-016  | USA (meteorite)     | <i>Science</i> <b>161</b> (1968), 786                                                                                                  | <i>Zeitschrift für Kristallographie</i> <b>187</b> (1989), 133                            |
| Kristekite     | $\text{Cu}_2(\text{H}_2\text{O})_4(\text{UO}_2)(\text{SeO}_3)_3 \cdot 4\text{H}_2\text{O}$     | A | 2025-101  | Czech Republic      | CNMNC Newsletter 91 - <i>Mineralogical Magazine</i> <b>90</b> (2026), xxx; <i>European Journal of Mineralogy</i> <b>38</b> (2026), 347 |                                                                                           |
| Kristiansenite | $\text{Ca}_4\text{Sc}_2\text{Sn}_2(\text{Si}_2\text{O}_7)_2(\text{Si}_2\text{O}_6\text{OH})_2$ | A | 2000-051  | Norway              | <i>Mineralogy and Petrology</i> <b>75</b> (2002), 89                                                                                   | <i>Minerals</i> <b>8</b> (2018), 584                                                      |
| Kristjánite    | $\text{KNa}_2\text{H}(\text{SO}_4)_2$                                                          | A | 2022-131  | Iceland             | <i>Mineralogical Magazine</i> <b>88</b> (2024), 211                                                                                    |                                                                                           |
| Krivovichevite | $\text{Pb}_3\text{Al}(\text{OH})_6(\text{SO}_4)(\text{OH})$                                    | A | 2004-053  | Russia              | <i>Canadian Mineralogist</i> <b>45</b> (2007), 451                                                                                     | <i>Canadian Mineralogist</i> <b>47</b> (2009), 153                                        |
| Kröhnkite      | $\text{Na}_2\text{Cu}(\text{SO}_4)_2(\text{H}_2\text{O})_2$                                    | G | 1879      | Chile               | Mineralojía. Librería Central de Servat I CA, Santiago (1879), 250                                                                     | <i>Physics and Chemistry of Minerals</i> <b>45</b> (2018), 801                            |
| Krotite        | $\text{CaAl}_2\text{O}_4$                                                                      | A | 2010-038  | Morocco (meteorite) | <i>American Mineralogist</i> <b>96</b> (2011), 709                                                                                     |                                                                                           |
| Kroupaite      | $\text{KPb}_{0.5}(\text{H}_2\text{O})_{10}[(\text{UO}_2)_8\text{O}_4(\text{OH})_{10}]$         | A | 2017-031  | Czech Republic      | <i>American Mineralogist</i> <b>105</b> (2020), 561                                                                                    |                                                                                           |
| Krügerite      | $\text{BaCa}_6(\text{SiO}_4)_2[(\text{P}_{0.5}\text{S}_{0.5})\text{O}_4]_2\text{F}$            | A | 2023-121  | Israel              | CNMNC Newsletter 79 - <i>Mineralogical Magazine</i> <b>88</b> (2024), 510; <i>European Journal of Mineralogy</i> <b>36</b> (2024), 525 |                                                                                           |
| Kruijenite     | $\text{Ca}_4\text{Al}_4(\text{SO}_4)\text{F}_2(\text{OH})_{16} \cdot 2\text{H}_2\text{O}$      | A | 2018-057  | Germany             | <i>Mineralogy and Petrology</i> <b>113</b> (2019), 229                                                                                 |                                                                                           |
| Krupičkaite    | $\text{Cu}_6[\text{AsO}_3(\text{OH})]_6(\text{H}_2\text{O})_6 \cdot 2\text{H}_2\text{O}$       | A | 2020-032  | Czech Republic      | <i>Journal of Geosciences</i> <b>66</b> (2021), 37                                                                                     |                                                                                           |
| Krupkaite      | $\text{CuPbBi}_3\text{S}_6$                                                                    | A | 1974-020  | Czech Republic      | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1974), 533                                                                          | <i>Canadian Mineralogist</i> <b>46</b> (2008), 525                                        |
| Krut'aite      | $\text{CuSe}_2$                                                                                | A | 1972-001  | Czech Republic      | <i>Bulletin de la Société Française de Minéralogie et de Cristallographie</i> <b>95</b> (1972), 475                                    | <i>Acta Chemica Scandinavica</i> <b>A28</b> (1974), 996                                   |
| Krutovite      | $\text{NiAs}_2$                                                                                | A | 1975-009  | Czech Republic      | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>105</b> (1976), 59                                                       | <i>Inorganic Chemistry</i> <b>7</b> (1968), 389                                           |
| Kryachkoite    | $(\text{Al,Cu})_6(\text{Fe,Cu})$                                                               | A | 2016-062  | Russia (meteorite)  | <i>American Mineralogist</i> <b>102</b> (2017), 690                                                                                    |                                                                                           |
| Kryzaite       | $\text{Na}_4(\text{MgCr})(\text{PO}_4)_3$                                                      | A | 2025-053  | Poland (meteorite)  | CNMNC Newsletter 88 - <i>Mineralogical Magazine</i> <b>90</b> (2026), 192; <i>European Journal of Mineralogy</i> <b>37</b> (2025), 921 | <a href="https://doi.org/10.2138/am-2025-10138">https://doi.org/10.2138/am-2025-10138</a> |
| Kryzhanovskite | $(\text{Fe}^{3+}, \text{Mn}^{2+})_3(\text{PO}_4)_2(\text{OH}, \text{H}_2\text{O})_3$           | G | 1950      | Kazakhstan          | <i>Doklady Akademii Nauk SSSR</i> <b>72</b> (1950), 763                                                                                | <i>Mineralogical Magazine</i> <b>43</b> (1980), 789                                       |

|                    |                                                                                                                     |    |           |                       |                                                                                        |                                                                                    |
|--------------------|---------------------------------------------------------------------------------------------------------------------|----|-----------|-----------------------|----------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| Ktenasite          | $\text{ZnCu}_4(\text{SO}_4)_2(\text{OH})_6(\text{H}_2\text{O})_6$                                                   | G  | 1950      | Greece                | <i>Tschermaks Mineralogische und Petrographische Mitteilungen</i> <b>1</b> (1950), 342 | <i>Zeitschrift für Kristallographie</i> <b>147</b> (1978), 129                     |
| Kuannersuite-(Ce)  | $\text{NaCeBa}_3(\text{PO}_4)_3\text{F}_{0.5}\text{Cl}_{0.5}$                                                       | A  | 2002-013  | Denmark (Greenland)   | <i>Canadian Mineralogist</i> <b>42</b> (2004), 95                                      |                                                                                    |
| Kudriavite         | $(\text{Cd},\text{Pb})\text{Bi}_2\text{S}_4$                                                                        | A  | 2003-011  | Russia                | <i>Canadian Mineralogist</i> <b>43</b> (2005), 695                                     | <i>Canadian Mineralogist</i> <b>45</b> (2007), 437                                 |
| Kudryavtsevaite    | $\text{Na}_3\text{MgFe}^{3+}\text{Ti}_4\text{O}_{12}$                                                               | A  | 2012-078  | Botswana              | <i>Mineralogical Magazine</i> <b>77</b> (2013), 327                                    |                                                                                    |
| Kufahrite          | PtPb                                                                                                                | A  | 2020-045  | Russia                | <i>Mineralogical Magazine</i> <b>85</b> (2021), 254                                    |                                                                                    |
| Kukharenkoite-(Ce) | $\text{Ba}_2\text{Ce}(\text{CO}_3)_3\text{F}$                                                                       | A  | 1995-040  | Canada / Russia       | <i>European Journal of Mineralogy</i> <b>8</b> (1996), 1327                            | <i>Canadian Mineralogist</i> <b>36</b> (1998), 809                                 |
| Kukharenkoite-(La) | $\text{Ba}_2\text{La}(\text{CO}_3)_3\text{F}$                                                                       | A  | 2002-019  | Russia                | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>132(3)</b> (2003), 55  | <i>Zapiski Rossiyskogo Mineralogicheskogo Obshchestva</i> <b>132(3)</b> (2003), 65 |
| Kukisvumite        | $\text{Na}_6\text{ZnTi}_4\text{O}_4(\text{SiO}_3)_8(\text{H}_2\text{O})_4$                                          | A  | 1989-052  | Russia                | <i>Mineralogicheskij Zhurnal</i> <b>13(2)</b> (1991), 63                               | <i>Zeitschrift für Kristallographie</i> <b>215</b> (2000), 352                     |
| Kuksite            | $\text{Pb}_3\text{Zn}_3\text{TeO}_6(\text{PO}_4)_2$                                                                 | A  | 1989-018  | Russia                | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>119(5)</b> (1990), 50  | <i>American Mineralogist</i> <b>95</b> (2010), 933                                 |
| Kulanite           | $\text{BaFe}^{2+}_2\text{Al}_2(\text{PO}_4)_3(\text{OH})_3$                                                         | A  | 1975-012  | Canada                | <i>Canadian Mineralogist</i> <b>14</b> (1976), 127                                     | <i>Canadian Mineralogist</i> <b>32</b> (1994), 15                                  |
| Kuliginite         | $\text{Fe}_3\text{Mg}(\text{OH})_6\text{Cl}_2$                                                                      | A  | 2016-049  | Russia                | <i>American Mineralogist</i> <b>103</b> (2018), 1435                                   |                                                                                    |
| Kuliokite-(Y)      | $\text{Y}_4\text{Al}(\text{SiO}_4)_2(\text{OH})_2\text{F}_5$                                                        | A  | 1984-064  | Russia                | <i>Mineralogicheskij Zhurnal</i> <b>8(2)</b> (1986), 94                                | <i>Minerals</i> <b>15</b> (2025), 1064                                             |
| Kulkeite           | $\text{Na}_{0.3}\text{Mg}_8\text{Al}(\text{Si},\text{Al})_8\text{O}_{20}(\text{OH})_{10}$                           | A  | 1980-031  | Algeria               | <i>Contributions to Mineralogy and Petrology</i> <b>80</b> (1982), 103                 |                                                                                    |
| Kullerudite        | NiSe <sub>2</sub>                                                                                                   | A  | 1967 s.p. | Finland               | <i>Comptes Rendus de la Société Géologique de Finlande</i> <b>36</b> (1964), 113       |                                                                                    |
| Kumdykolite        | $\text{Na}(\text{AlSi}_3\text{O}_8)$                                                                                | A  | 2007-049  | Kazakhstan            | <i>European Journal of Mineralogy</i> <b>21</b> (2009), 1325                           | <i>American Mineralogist</i> <b>109</b> (2024), 1995                               |
| Kummerite          | $\text{Mn}^{2+}\text{Fe}^{3+}\text{Al}(\text{PO}_4)_2(\text{OH})_2(\text{H}_2\text{O})_6 \cdot 2\text{H}_2\text{O}$ | A  | 2015-036  | Germany               | <i>Mineralogical Magazine</i> <b>80</b> (2016), 1243                                   |                                                                                    |
| Kumtyubeite        | $\text{Ca}_5(\text{SiO}_4)_2\text{F}_2$                                                                             | A  | 2008-045  | Russia                | <i>American Mineralogist</i> <b>94</b> (2009), 1361                                    |                                                                                    |
| Kunatite           | $\text{CuFe}^{3+}_2(\text{PO}_4)_2(\text{OH})_2(\text{H}_2\text{O})_4$                                              | A  | 2007-057  | Australia             | <i>Australian Journal of Mineralogy</i> <b>14</b> (2008), 3                            |                                                                                    |
| Kupčikite          | $\text{Cu}_{3.4}\text{Fe}_{0.6}\text{Bi}_5\text{S}_{10}$                                                            | A  | 2001-017  | Austria               | <i>Canadian Mineralogist</i> <b>41</b> (2003), 1155                                    |                                                                                    |
| Kupletskite        | $\text{K}_2\text{NaMn}^{2+}_7\text{Ti}_2(\text{Si}_4\text{O}_{12})_2\text{O}_2(\text{OH})_4\text{F}$                | G  | 1956      | Russia                | <i>Doklady Akademii Nauk SSSR</i> <b>108</b> (1956), 933                               | <i>Minerals</i> <b>15</b> (2025), 587                                              |
| Kupletskite-(Cs)   | $\text{Cs}_2\text{NaMn}^{2+}_7\text{Ti}_2(\text{Si}_4\text{O}_{12})_2\text{O}_2(\text{OH})_4\text{F}$               | Rn | 1970-009  | Tajikistan            | <i>Doklady Akademii Nauk SSSR</i> <b>197</b> (1971), 1394                              | <i>Minerals</i> <b>15</b> (2025), 587                                              |
| Kuramite           | $\text{Cu}_3\text{SnS}_4$                                                                                           | A  | 1979-013  | Uzbekistan            | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>108</b> (1979), 564      | <i>Inorganic Chemistry</i> <b>52</b> (2013), 9861                                  |
| Kuranakhite        | $\text{PbMn}^{4+}\text{Te}^{6+}\text{O}_6$                                                                          | A  | 1974-030  | Russia                | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>104</b> (1975), 310      |                                                                                    |
| Kuratite           | $\text{Ca}_2(\text{Fe}^{2+}_5\text{Ti})\text{O}_2[\text{Si}_4\text{Al}_2\text{O}_{18}]$                             | A  | 2013-109  | Argentina (meteorite) | <i>Mineralogical Magazine</i> <b>80</b> (2016), 1067                                   |                                                                                    |
| Kurchatovite       | $\text{CaMgB}_2\text{O}_5$                                                                                          | A  | 1965-034  | Russia                | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>95</b> (1966), 203       | <i>Minerals</i> <b>8</b> (2018), 332                                               |

|                 |                                                                                                                                            |    |           |                        |                                                                                       |                                                                   |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------|----|-----------|------------------------|---------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| Kurgantaite     | $\text{CaSrB}_5\text{O}_9\text{Cl}(\text{H}_2\text{O})$                                                                                    | Rd | 2000 s.p. | Kazakhstan             | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>130(3)</b> (2001), 71 | <i>Crystallography Reports</i> <b>45</b> (2000), 410              |
| Kurilite        | $\text{Ag}_8\text{Te}_3\text{Se}$                                                                                                          | A  | 2009-080  | Russia                 | <i>Mineralogical Magazine</i> <b>74</b> (2010), 463                                   | <i>Canadian Mineralogist</i> <b>53</b> (2015), 159                |
| Kurnakovite     | $\text{Mg}[\text{B}_3\text{O}_3(\text{OH})_5](\text{H}_2\text{O})_4 \cdot \text{H}_2\text{O}$                                              | G  | 1940      | Kazakhstan             | <i>Doklady Akademii Nauk SSSR</i> <b>28</b> (1940), 638                               | <i>American Mineralogist</i> <b>104</b> (2019), 1315              |
| Kurumsakite     | $\text{Zn}_8\text{Al}_8\text{V}^{5+}_2\text{Si}_5\text{O}_{35} \cdot 27\text{H}_2\text{O}$ (?)                                             | Q  | 1954      | Kazakhstan             | <i>Izvestiya Akademii Nauk SSSR</i> <b>134(19)</b> (1954), 116                        |                                                                   |
| Kusachiite      | $\text{Cu}^{2+}\text{Bi}^{3+}_2\text{O}_4$                                                                                                 | A  | 1992-024  | Japan                  | <i>Mineralogical Magazine</i> <b>59</b> (1995), 545                                   | <i>Journal of Physics: Condensed Matter</i> <b>2</b> (1990), 2205 |
| Kushiroite      | $\text{CaAlAlSiO}_6$                                                                                                                       | A  | 2008-059  | Antarctica (meteorite) | <i>American Mineralogist</i> <b>94</b> (2009), 1479                                   |                                                                   |
| Kutinaite       | $\text{Ag}_6\text{Cu}_{14}\text{As}_7$                                                                                                     | A  | 1969-034  | Czech Republic         | <i>American Mineralogist</i> <b>55</b> (1970), 1083                                   | <i>Mineralogical Magazine</i> <b>79</b> (2015), 1099              |
| Kutnohorite     | $\text{CaMn}^{2+}(\text{CO}_3)_2$                                                                                                          | G  | 1903      | Czech Republic         | <i>Neues Jahrbuch für Mineralogie, Geologie und Paläontologie</i> (1903), 338         | <i>American Mineralogist</i> <b>100</b> (2015), 2242              |
| Kuvaevite       | $\text{Ir}_5\text{Ni}_{10}\text{S}_{16}$                                                                                                   | A  | 2020-043  | Russia                 | <i>Russian Geology and Geophysics</i> <b>63</b> (2022), 1373                          |                                                                   |
| Kuzelite        | $\text{Ca}_4\text{Al}_2(\text{OH})_{12}(\text{SO}_4)(\text{H}_2\text{O})_4 \cdot 2\text{H}_2\text{O}$                                      | A  | 1996-053  | Germany                | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1997), 423                         | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1977), 136     |
| Kuzmenkoite-Mn  | $\text{K}_2\text{MnTi}_4(\text{Si}_4\text{O}_{12})_2(\text{OH})_4 \cdot 5\text{-}6\text{H}_2\text{O}$                                      | Rn | 1998-058  | Russia                 | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>128(4)</b> (1999), 42 | <i>Crystallography Reports</i> <b>45</b> (2000), 759              |
| Kuzmenkoite-Zn  | $\text{K}_2\text{ZnTi}_4(\text{Si}_4\text{O}_{12})_2(\text{OH})_4 \cdot 6\text{-}8\text{H}_2\text{O}$                                      | A  | 2001-037  | Russia                 | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>131(2)</b> (2002), 45 |                                                                   |
| Kuzminite       | $\text{HgBr}$                                                                                                                              | A  | 1986-005  | Russia                 | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>115</b> (1986), 595     |                                                                   |
| Kuznetsovite    | $\text{Hg}^{1+}_2\text{Hg}^{2+}(\text{AsO}_4)\text{Cl}$                                                                                    | A  | 1980-009  | Kyrgyzstan / Russia    | <i>Doklady Akademii Nauk SSSR</i> <b>255</b> (1980), 963                              | <i>Zeitschrift für Naturforschung</i> <b>56b</b> (2001), 753      |
| Kvačekite       | $\text{NiSbSe}$                                                                                                                            | A  | 2023-095  | Czech Republic         | <i>Mineralogical Magazine</i> <b>88</b> (2024), 565                                   |                                                                   |
| Kvanefjeldite   | $\text{Na}_4\text{CaSi}_6\text{O}_{14}(\text{OH})_2$                                                                                       | A  | 1982-079  | Denmark (Greenland)    | <i>Canadian Mineralogist</i> <b>22</b> (1984), 465                                    | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1983), 505     |
| Kyanite         | $\text{Al}_2\text{OSiO}_4$                                                                                                                 | A  | 1967 s.p. | Austria                | <i>Bergmannisches Journal</i> <b>1</b> (1789), 369                                    | <i>American Mineralogist</i> <b>91</b> (2006), 740                |
| Kyanoxalite     | $\text{Na}_7(\text{Al}_{5-6}\text{Si}_{6-7}\text{O}_{24})(\text{C}_2\text{O}_4)_{0.5-1.0}(\text{H}_2\text{O})_5$                           | A  | 2008-041  | Russia                 | <i>Zapiski Rossiyskogo Mineralogicheskogo Obshchestva</i> <b>138(6)</b> (2009), 18    |                                                                   |
| Kyawthuite      | $\text{Bi}^{3+}\text{Sb}^{5+}_2\text{O}_4$                                                                                                 | A  | 2015-078  | Myanmar                | <i>Mineralogical Magazine</i> <b>81</b> (2017), 477                                   |                                                                   |
| Kyrgyzstanite   | $\text{ZnAl}_4(\text{SO}_4)(\text{OH})_{12}(\text{H}_2\text{O})_3$                                                                         | A  | 2004-024  | Kyrgyzstan             | <i>New Data on Minerals</i> <b>40</b> (2005), 23                                      |                                                                   |
| Kyzylkumite     | $\text{Ti}_2\text{V}^{3+}\text{O}_5(\text{OH})$                                                                                            | A  | 1980-081  | Uzbekistan             | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>110</b> (1981), 607     | <i>Mineralogical Magazine</i> <b>77</b> (2013), 33                |
| Laachite        | $(\text{Ca}, \text{Mn})_2\text{Zr}_2\text{Nb}_2\text{TiFeO}_{14}$                                                                          | A  | 2012-100  | Germany                | <i>European Journal of Mineralogy</i> <b>26</b> (2014), 103                           |                                                                   |
| Labuntsovite-Fe | $\text{Na}_4\text{K}_4\text{Fe}^{2+}_2\text{Ti}_8\text{O}_4(\text{Si}_4\text{O}_{12})_4(\text{OH})_4 \cdot 10\text{-}12\text{H}_2\text{O}$ | A  | 1998-051a | Russia                 | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>130(4)</b> (2001), 36 | <i>Acta Crystallographica</i> <b>B74</b> (2018), 1                |
| Labuntsovite-Mg | $\text{Na}_4\text{K}_4\text{Mg}_2\text{Ti}_8\text{O}_4(\text{Si}_4\text{O}_{12})_4(\text{OH})_4 \cdot 10\text{-}12\text{H}_2\text{O}$      | A  | 1998-050a | Russia                 | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>130(4)</b> (2001), 36 |                                                                   |

|                   |                                                                                                                                                             |    |            |                |                                                                                                                                        |                                                                                        |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|----|------------|----------------|----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
| Labuntsovite-Mn   | $\text{Na}_4\text{K}_4\text{Mn}^{2+}_2\text{Ti}_8\text{O}_4(\text{Si}_4\text{O}_{12})_4(\text{OH})_4 \cdot 10\text{-}12\text{H}_2\text{O}$                  | Rn | 2000 s.p.  | Russia         | <i>Doklady Akademii Nauk SSSR</i> <b>101</b> (1955), 1113                                                                              | <i>Kristallografiya</i> <b>18</b> (1973), 950                                          |
| Labyrinthite      | $(\text{Na},\text{K},\text{Sr})_{35}\text{Ca}_{12}\text{Fe}_3\text{Zr}_6\text{TiSi}_{51}\text{O}_{144}(\text{O},\text{OH},\text{H}_2\text{O})_9\text{Cl}_3$ | A  | 2002-065   | Russia         | <i>Zapiski Rossiyskogo Mineralogicheskogo Obshchestva</i> <b>135(2)</b> (2006), 38                                                     | <i>Crystallography Reports</i> <b>46</b> (2001), 752                                   |
| Lacroixite        | $\text{NaAl}(\text{PO}_4)\text{F}$                                                                                                                          | G  | 1914       | Germany        | <i>Bulletin de la Société Française de Minéralogie</i> <b>37</b> (1914), 157                                                           | <i>American Mineralogist</i> <b>70</b> (1985), 849                                     |
| Laffittite        | $\text{AgHgAsS}_3$                                                                                                                                          | A  | 1973-031   | France         | <i>Bulletin de la Société Française de Minéralogie et de Cristallographie</i> <b>97</b> (1974), 48                                     | <i>Periodico di Mineralogia</i> <b>83</b> (2014), 1                                    |
| Laflammeite       | $\text{Pd}_3\text{Pb}_2\text{S}_2$                                                                                                                          | A  | 2000-014   | Finland        | <i>Canadian Mineralogist</i> <b>40</b> (2002), 671                                                                                     |                                                                                        |
| Laforêtite        | $\text{AgInS}_2$                                                                                                                                            | A  | 1995-006   | France         | <i>European Journal of Mineralogy</i> <b>11</b> (1999), 891                                                                            |                                                                                        |
| Lafossaite        | $\text{TlCl}$                                                                                                                                               | A  | 2003-032   | Italy          | <i>Mineralogical Record</i> <b>37</b> (2006), 165                                                                                      |                                                                                        |
| Lagalyite         | $\text{Ca}_{2x}\text{Mn}_{1-x}\text{O}_2 \cdot 1.5\text{-}2\text{H}_2\text{O}$ ( $x = 0.05\text{-}0.08$ )                                                   | A  | 2016-106   | Germany        | CNMNC Newsletter 36 - <i>Mineralogical Magazine</i> <b>81</b> (2017), 403; <i>European Journal of Mineralogy</i> <b>29</b> (2017), 339 |                                                                                        |
| Lahnsteinite      | $\text{Zn}_4(\text{SO}_4)(\text{OH})_6(\text{H}_2\text{O}) \cdot 2\text{H}_2\text{O}$                                                                       | A  | 2012-002   | Germany        | <i>Zapiski Rossiyskogo Mineralogicheskogo Obshchestva</i> <b>142(1)</b> (2013), 39                                                     | <i>Crystallography Reports</i> <b>57</b> (2012), 737                                   |
| Laihunite         | $(\text{Fe}^{3+}, \text{Fe}^{2+}, \square)_2(\text{SiO}_4)$                                                                                                 | A  | 1988-xxx ? | China          | <i>Geochimica</i> <b>2</b> (1976), 95                                                                                                  | <i>American Mineralogist</i> <b>99</b> (2014), 881                                     |
| Laitakarite       | $\text{Bi}_4(\text{Se},\text{S})_3$                                                                                                                         | A  | 1967 s.p.  | Finland        | <i>Geologi</i> <b>3</b> (1959), 11                                                                                                     | <i>Minerals</i> <b>11</b> (2021), 920                                                  |
| Lakargiite        | $\text{CaZrO}_3$                                                                                                                                            | A  | 2007-014   | Russia         | <i>American Mineralogist</i> <b>93</b> (2008), 1903                                                                                    | <i>Journal of the European Ceramic Society</i> <b>32</b> (2012), 665                   |
| Lakebogaite       | $\text{NaCaFe}_2\text{H}(\text{UO}_2)_2(\text{PO}_4)_4(\text{OH})_2(\text{H}_2\text{O})_4 \cdot 3\text{H}_2\text{O}$                                        | A  | 2007-001   | Australia      | <i>American Mineralogist</i> <b>93</b> (2008), 691                                                                                     |                                                                                        |
| Lalondeite        | $(\text{Na},\text{Ca})_6(\text{Ca},\text{Na})_3\text{Si}_{16}\text{O}_{38}(\text{F},\text{OH})_2 \cdot 3\text{H}_2\text{O}$                                 | A  | 2002-026   | Canada         | <i>Canadian Mineralogist</i> <b>47</b> (2009), 181                                                                                     |                                                                                        |
| Lammerite         | $\text{Cu}_3(\text{AsO}_4)_2$                                                                                                                               | A  | 1980-016   | Bolivia        | <i>Tschermaks Mineralogische und Petrographische Mitteilungen</i> <b>28</b> (1981), 157                                                | <i>American Mineralogist</i> <b>71</b> (1986), 206                                     |
| Lamprophyllite    | $(\text{SrNa})\text{Ti}_2\text{Na}_3\text{Ti}(\text{Si}_2\text{O}_7)_2\text{O}_2(\text{OH})_2$                                                              | Rd | 2016 s.p.  | Russia         | <i>Fennia - Bulletin de la Société de Géographie de Finlande</i> <b>11</b> (1894), 101                                                 | <i>European Journal of Mineralogy</i> <b>15</b> (2003), 711                            |
| Lanarkite         | $\text{Pb}_2\text{O}(\text{SO}_4)$                                                                                                                          | G  | 1832       | United Kingdom | Traité Élémentaire de Minéralogie, 2nd ed. Verdière, Paris (1832), 366                                                                 | <i>Journal of Applied Crystallography</i> <b>16</b> (1983), 430                        |
| Landauite         | $(\text{Na},\text{Pb})(\text{Mn}^{2+},\text{Y})(\text{Zn},\text{Fe})_2(\text{Ti},\text{Fe}^{3+},\text{Nb})_{18}(\text{O},\text{OH},\text{F})\text{O}_{38}$  | A  | 1965-033   | Russia         | <i>Doklady Akademii Nauk SSSR</i> <b>166</b> (1966), 1420                                                                              | <i>Canadian Mineralogist</i> <b>16</b> (1978), 63                                      |
| Landesite         | $\text{Mn}^{2+}_9\text{Fe}^{3+}_3(\text{PO}_4)_8(\text{OH})_3(\text{H}_2\text{O})_9$                                                                        | Rd | 1964 s.p.  | USA            | <i>American Mineralogist</i> <b>15</b> (1930), 375                                                                                     | <i>Mineralogical Magazine</i> <b>43</b> (1980), 789                                    |
| Långbanite        | $\text{Mn}^{2+}_4\text{Mn}^{3+}_9\text{Sb}^{5+}\text{O}_{16}(\text{SiO}_4)_2$                                                                               | A  | 1971 s.p.  | Sweden         | <i>Zeitschrift für Krystallographie und Mineralogie</i> <b>13</b> (1888), 1                                                            | <i>American Mineralogist</i> <b>76</b> (1991), 1408                                    |
| Långbanshyttanite | $[\text{Mg}(\text{H}_2\text{O})_6]\text{Pb}_2\text{Mn}_2(\text{AsO}_4)_2(\text{OH})_4$                                                                      | A  | 2010-071   | Sweden         | <i>European Journal of Mineralogy</i> <b>23</b> (2011), 675                                                                            |                                                                                        |
| Langbeinite       | $\text{K}_2\text{Mg}_2(\text{SO}_4)_3$                                                                                                                      | G  | 1891       | Germany        | <i>Zeitschrift für Angewandte Chemie</i> (1891), 356                                                                                   | <i>IUCrJ</i> <b>9</b> (2022), 146                                                      |
| Langhofite        | $\text{Pb}_2(\text{OH})[\text{WO}_4(\text{OH})]$                                                                                                            | A  | 2019-005   | Sweden         | <i>Mineralogical Magazine</i> <b>84</b> (2020), 381                                                                                    |                                                                                        |
| Langisite         | $\text{CoAs}$                                                                                                                                               | A  | 1968-023   | Canada         | <i>Canadian Mineralogist</i> <b>9</b> (1969), 597                                                                                      | <i>Acta Chemica Scandinavica</i> <b>A38</b> (1984), 687                                |
| Langite           | $\text{Cu}_4(\text{SO}_4)(\text{OH})_6(\text{H}_2\text{O}) \cdot \text{H}_2\text{O}$                                                                        | G  | 1864       | United Kingdom | <i>Philosophical Magazine and Journal of Science</i> <b>28</b> (1864), 403                                                             | <i>Zeitschrift für Kristallographie - New Crystal Structures</i> <b>239</b> (2024), 89 |
| Laanmuchangite    | $\text{TlAl}(\text{SO}_4)_2(\text{H}_2\text{O})_{12}$                                                                                                       | A  | 2001-018   | China          | <i>Acta Mineralogica Sinica</i> <b>21</b> (2001), 271                                                                                  | <i>Acta Crystallographica</i> <b>B56</b> (2000), 204                                   |

|                  |                                                                                                                                      |    |           |                |                                                                                                                                        |                                                                    |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------|----|-----------|----------------|----------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|
| Lannonite        | $\text{HCa}_4\text{Mg}_2\text{Al}_4(\text{SO}_4)_8\text{F}_9 \cdot 32\text{H}_2\text{O}$                                             | A  | 1979-069  | USA            | <i>Mineralogical Magazine</i> <b>47</b> (1983), 37                                                                                     |                                                                    |
| Lansfordite      | $\text{Mg}(\text{CO}_3)(\text{H}_2\text{O})_5$                                                                                       | G  | 1888      | USA            | <i>Zeitschrift für Kristallographie, Mineralogie und Petrographie</i> <b>14</b> (1888), 255                                            | <i>Mineralogical Magazine</i> <b>81</b> (2017), 1063               |
| Lanthanite-(Ce)  | $\text{Ce}_2(\text{CO}_3)_3(\text{H}_2\text{O})_6 \cdot 2\text{H}_2\text{O}$                                                         | A  | 1983-055  | United Kingdom | <i>American Mineralogist</i> <b>70</b> (1985), 411                                                                                     | <i>Journal of Alloys and Compounds</i> <b>323</b> (2001), 193      |
| Lanthanite-(La)  | $\text{La}_2(\text{CO}_3)_3(\text{H}_2\text{O})_6 \cdot 2\text{H}_2\text{O}$                                                         | Rn | 1987 s.p. | Sweden         | Handbuch der Bestimmenden Mineralogie. Braumüller and Seidel, Wien (1845), 500                                                         | <i>American Mineralogist</i> <b>62</b> (1977), 142                 |
| Lanthanite-(Nd)  | $\text{Nd}_2(\text{CO}_3)_3(\text{H}_2\text{O})_6 \cdot 2\text{H}_2\text{O}$                                                         | A  | 1979-074  | Brazil         | <i>Geological Survey of Canada</i> <b>80-1C</b> (1980), 141                                                                            | <i>Acta Crystallographica</i> <b>E69</b> (2013), i15               |
| Lapeyreite       | $\text{Cu}_3\text{O}[\text{AsO}_3(\text{OH})]_2 \cdot \text{H}_2\text{O}$                                                            | A  | 2003-023b | France         | <i>American Mineralogist</i> <b>95</b> (2010), 171                                                                                     |                                                                    |
| Laphamite        | $\text{As}_2\text{Se}_3$                                                                                                             | A  | 1985-021  | USA            | <i>Mineralogical Magazine</i> <b>50</b> (1986), 279                                                                                    | <i>Canadian Mineralogist</i> <b>46</b> (2008), 269                 |
| Lapieite         | $\text{CuNiSbS}_3$                                                                                                                   | A  | 1983-002  | Canada         | <i>Canadian Mineralogist</i> <b>22</b> (1984), 561                                                                                     |                                                                    |
| Laplandite-(Ce)  | $\text{Na}_4\text{CeTiPSi}_7\text{O}_{22} \cdot 5\text{H}_2\text{O}$                                                                 | Rn | 1987 s.p. | Russia         | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>103</b> (1974), 571                                                      |                                                                    |
| Laptevite-(Ce)   | $\text{NaFe}^{2+}(\text{REE}_7\text{Ca}_5\text{Y}_3)(\text{SiO}_4)_4(\text{Si}_3\text{B}_2\text{PO}_{18})(\text{BO}_3)\text{F}_{11}$ | A  | 2011-081  | Tajikistan     | <i>New Data on Minerals</i> <b>48</b> (2013), 5                                                                                        | <i>Zeitschrift für Kristallographie</i> <b>228</b> (2013), 550     |
| Larderellite     | $(\text{NH}_4)\text{B}_5\text{O}_7(\text{OH})_2 \cdot \text{H}_2\text{O}$                                                            | G  | 1854      | Italy          | <i>Journal of Science and Arts, Series II</i> <b>17</b> (1854), 129                                                                    | <i>Acta Crystallographica</i> <b>B25</b> (1969), 2264              |
| Larisaite        | $\text{Na}(\text{H}_3\text{O})(\text{UO}_2)_3(\text{Se}^{4+}\text{O}_3)_2\text{O}_2(\text{H}_2\text{O})_3 \cdot \text{H}_2\text{O}$  | A  | 2002-061  | USA            | <i>European Journal of Mineralogy</i> <b>16</b> (2004), 367                                                                            |                                                                    |
| Larnite          | $\text{Ca}_2(\text{SiO}_4)$                                                                                                          | G  | 1929      | United Kingdom | <i>Mineralogical Magazine</i> <b>22</b> (1929), 77                                                                                     | <i>Crystallography Reports</i> <b>56</b> (2011), 210               |
| Larosite         | $(\text{Cu},\text{Ag})_{21}\text{PbBiS}_{13}$                                                                                        | A  | 1971-014  | Canada         | <i>Canadian Mineralogist</i> <b>11</b> (1972), 886                                                                                     | <i>Canadian Mineralogist</i> <b>48</b> (2010), 1569                |
| Larsenite        | $\text{ZnPb}(\text{SiO}_4)$                                                                                                          | G  | 1928      | USA            | <i>American Mineralogist</i> <b>13</b> (1928), 334                                                                                     | <i>Zeitschrift für Kristallographie</i> <b>124</b> (1967), 115     |
| Lasalite         | $[\text{Mg}(\text{H}_2\text{O})_6]_2\text{Na}_2\text{V}_{10}\text{O}_{28}(\text{H}_2\text{O})_8$                                     | A  | 2007-005  | USA            | <i>Canadian Mineralogist</i> <b>46</b> (2008), 1365                                                                                    |                                                                    |
| Lasmanisite      | $\text{Ag}_{12}\text{Pb}_{13}\text{Mn}_{11}\text{Sb}_{44}\text{S}_{96}$                                                              | A  | 2022-128  | USA            | CNMNC Newsletter 72 - <i>Mineralogical Magazine</i> <b>87</b> (2023), 512; <i>European Journal of Mineralogy</i> <b>35</b> (2023), 285 |                                                                    |
| Lasnierite       | $\text{CaMg}_2\text{Al}(\text{PO}_4)_3$                                                                                              | A  | 2017-084  | Madagascar     | <i>European Journal of Mineralogy</i> <b>31</b> (2019), 379                                                                            |                                                                    |
| Latiumite        | $(\text{Ca},\text{K})_4(\text{Si},\text{Al})_5\text{O}_{11}(\text{SO}_4,\text{CO}_3)$                                                | G  | 1953      | Italy          | <i>Mineralogical Magazine</i> <b>30</b> (1953), 39                                                                                     | <i>Acta Crystallographica</i> <b>B79</b> (2023), 296               |
| Latrappite       | $\text{Ca}_2\text{NbFe}^{3+}\text{O}_6$                                                                                              | Rd | 2016 s.p. | Canada         | <i>Canadian Mineralogist</i> <b>8</b> (1964), 121                                                                                      | <i>Canadian Mineralogist</i> <b>36</b> (1998), 107                 |
| Laueite          | $\text{Mn}^{2+}\text{Fe}^{3+}_2(\text{PO}_4)_2(\text{OH})_2(\text{H}_2\text{O})_6 \cdot 2\text{H}_2\text{O}$                         | G  | 1954      | Germany        | <i>Naturwissenschaften</i> <b>41</b> (1954), 256                                                                                       | <i>Mineralogical Magazine</i> <b>79</b> (2015), 309                |
| Laumontite       | $\text{CaAl}_2\text{Si}_4\text{O}_{12} \cdot 4\text{H}_2\text{O}$                                                                    | A  | 1997 s.p. | France         | Handbuch der Oryktognosie. Mohn & Winter, Heidelberg (1821), 448                                                                       | <i>Microporous and Mesoporous Materials</i> <b>263</b> (2018), 263 |
| Launayite        | $\text{CuPb}_{10}(\text{Sb},\text{As})_{13}\text{S}_{30}$                                                                            | A  | 1966-021  | Canada         | <i>Canadian Mineralogist</i> <b>9</b> (1967), 191                                                                                      | <i>European Journal of Mineralogy</i> <b>37</b> (2025), 971        |
| Lauraniite       | $\text{Cu}_6\text{Cd}_2(\text{SO}_4)_2(\text{OH})_{12}(\text{H}_2\text{O})_4 \cdot \text{H}_2\text{O}$                               | A  | 2019-049  | Bolivia        | <i>Canadian Mineralogist</i> <b>60</b> (2022), 825                                                                                     |                                                                    |
| Laurelite        | $\text{Pb}_7\text{F}_{12}\text{Cl}_2$                                                                                                | A  | 1988-020a | USA            | <i>American Mineralogist</i> <b>74</b> (1989), 927                                                                                     | <i>American Mineralogist</i> <b>81</b> (1996), 1277                |
| Laurentianite    | $[\text{NbO}(\text{H}_2\text{O})]_3(\text{Si}_2\text{O}_7)_2[\text{Na}(\text{H}_2\text{O})_2]_3$                                     | A  | 2010-018  | Canada         | <i>Canadian Mineralogist</i> <b>50</b> (2012), 1265                                                                                    |                                                                    |
| Laurentthomasite | $\text{Mg}_2\text{K}(\text{Be}_2\text{Al})\text{Si}_{12}\text{O}_{30}$                                                               | A  | 2018-157  | Madagascar     | <i>European Journal of Mineralogy</i> <b>32</b> (2020), 355                                                                            |                                                                    |
| Laurionite       | $\text{PbCl}(\text{OH})$                                                                                                             | G  | 1887      | Greece         | <i>Annalen des Kaiserlich-Königlichen Naturhistorischen Hofmuseums</i> <b>2</b> (1887), 185                                            | <i>Zeitschrift für Kristallographie</i> <b>141</b> (1975), 246     |

|                |                                                                                                                  |    |           |                      |                                                                                                                                               |                                                                         |
|----------------|------------------------------------------------------------------------------------------------------------------|----|-----------|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|
| Laurite        | $\text{RuS}_2$                                                                                                   | G  | 1866      | Indonesia            | <i>Nachrichten von der Königliche Gesellschaft der Wissenschaftern und der Georg-Augusts-Universität</i> (1866), 155                          | <i>Mineralogical Magazine</i> <b>87</b> (2023), 396                     |
| Lausenite      | $\text{Fe}^{3+}_2(\text{SO}_4)_3(\text{H}_2\text{O})_5$                                                          | G  | 1928      | USA                  | <i>American Mineralogist</i> <b>13</b> (1928), 203                                                                                            | <i>American Mineralogist</i> <b>90</b> (2005), 411                      |
| Lautarite      | $\text{Ca}(\text{IO}_3)_2$                                                                                       | G  | 1891      | Chile                | <i>Zeitschrift für Kristallographie, Mineralogie und Petrographie</i> <b>19</b> (1891), 447                                                   | <i>Acta Crystallographica</i> <b>B34</b> (1978), 84                     |
| Lautenthalite  | $\text{PbCu}_4(\text{SO}_4)_2(\text{OH})_6(\text{H}_2\text{O})_3$                                                | A  | 1983-029  | Germany              | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1993), 401                                                                                 |                                                                         |
| Lautite        | $\text{CuAsS}$                                                                                                   | G  | 1881      | Germany              | <i>Tschermaks Mineralogische und Petrographische Mitteilungen</i> <b>3</b> (1881), 515                                                        | <i>Acta Crystallographica</i> <b>E64</b> (2008), i22                    |
| Lavendulan     | $\text{NaCaCu}_5(\text{AsO}_4)_4\text{Cl}(\text{H}_2\text{O})_5$                                                 | G  | 1837      | Czech Republic       | <i>Journal für Praktische Chemie</i> <b>10</b> (1837), 505                                                                                    | <i>European Journal of Mineralogy</i> <b>19</b> (2007), 75              |
| Låvenite       | $(\text{Na,Ca})_4(\text{Mn}^{2+}, \text{Fe}^{2+})_2(\text{Zr,Ti,Nb})_2(\text{Si}_2\text{O}_7)_2(\text{O,F})_4$   | G  | 1884      | Norway               | <i>Geologiska Föreningens i Stockholm Förhandlingar</i> <b>7</b> (1884), 598                                                                  | <i>Canadian Mineralogist</i> <b>50</b> (2012), 593                      |
| Laverovite     | $\text{K}_2\text{NaMn}_7\text{Zr}_2(\text{Si}_4\text{O}_{12})_2\text{O}_2(\text{OH})_4\text{F}$                  | A  | 2017-009b | Canada               | <i>Canadian Mineralogist</i> <b>57</b> (2019), 201                                                                                            |                                                                         |
| Lavinskyite    | $\text{K}(\text{LiCu})\text{Cu}_6(\text{Si}_4\text{O}_{11})_2(\text{OH})_4$                                      | A  | 2012-028  | South Africa         | <i>American Mineralogist</i> <b>99</b> (2014), 525                                                                                            | <i>European Journal of Mineralogy</i> <b>30</b> (2018), 811             |
| Lavoisierite   | $\text{Mn}^{2+}_8[\text{Al}_{10}(\text{Mn}^{3+}\text{Mg})][\text{Si}_{11}\text{P}]\text{O}_{44}(\text{OH})_{12}$ | A  | 2012-009  | Italy                | <i>Physics and Chemistry of Minerals</i> <b>40</b> (2013), 239                                                                                |                                                                         |
| Lavrentievite  | $\text{Hg}_3\text{S}_2\text{Cl}_2$                                                                               | A  | 1984-020  | Russia               | <i>Geologiya i Geofizika</i> <b>7</b> (1984), 54                                                                                              | <i>Canadian Mineralogist</i> <b>44</b> (2006), 1239                     |
| Lawrencite     | $\text{FeCl}_2$                                                                                                  | G  | 1877      | USA                  | <i>Comptes Rendus Hebdomadaires des Séances de l'Académie des Sciences</i> <b>84</b> (1877), 66                                               | <i>Journal of Physics and Chemistry of Solids</i> <b>36</b> (1975), 401 |
| Lawsonbauerite | $\text{Mn}^{2+}_9\text{Zn}_4(\text{SO}_4)_2(\text{OH})_{22}(\text{H}_2\text{O})_8$                               | A  | 1979-004  | USA                  | <i>American Mineralogist</i> <b>64</b> (1979), 949                                                                                            | <i>American Mineralogist</i> <b>67</b> (1982), 1029                     |
| Lawsonite      | $\text{CaAl}_2(\text{Si}_2\text{O}_7)(\text{OH})_2(\text{H}_2\text{O})$                                          | G  | 1895      | USA                  | <i>University of California, Department of Geology Bulletin</i> <b>1</b> (1895), 301                                                          | <i>European Journal of Mineralogy</i> <b>20</b> (2008), 63              |
| Lazaraskeite   | $\text{Cu}(\text{C}_2\text{H}_3\text{O}_3)_2$                                                                    | A  | 2018-137  | USA                  | <i>American Mineralogist</i> <b>107</b> (2022), 509                                                                                           |                                                                         |
| Lazarenkoite   | $\text{CaFe}^{3+}\text{As}^{3+}_3\text{O}_7 \cdot 3\text{H}_2\text{O}$                                           | A  | 1980-076  | Russia               | <i>Mineralogicheskij Zhurnal</i> <b>3(3)</b> (1981), 92                                                                                       | <i>Probl. Kristallokhim. Genezisa Miner</i> (1986), 145                 |
| Lazaridisite   | $\text{Cd}_3(\text{SO}_4)_3(\text{H}_2\text{O})_6 \cdot 2\text{H}_2\text{O}$                                     | A  | 2012-043  | Greece               | <i>Mineralogical Magazine</i> <b>83</b> (2019), 551                                                                                           |                                                                         |
| Lazerckerite   | $\text{Ag}_{3.75}\text{Pb}_{4.50}(\text{Sb}_{7.75}\text{Bi}_4)\text{S}_{24}$                                     | A  | 2022-113  | Czech Republic       | <i>European Journal of Mineralogy</i> <b>36</b> (2024), 641                                                                                   |                                                                         |
| Lazulite       | $\text{MgAl}_2(\text{PO}_4)_2(\text{OH})_2$                                                                      | A  | 1967 s.p. | Austria              | <i>Beiträge zur Chemischen Kenntniss der Mineralkörper</i> , Vol. 1. Decker, Berlin (1795), 197                                               | <i>Physics and Chemistry of Minerals</i> <b>46</b> (2019), 449          |
| Lazurite       | $\text{Na}_7\text{Ca}(\text{Al}_6\text{Si}_6\text{O}_{24})(\text{SO}_4)(\text{S}_3)^-\cdot\text{H}_2\text{O}$    | Rd | 2021 s.p. | Afghanistan / Russia | <i>Zeitschrift für Krystallographie und Mineralogie</i> <b>18</b> (1891), 209                                                                 | <i>American Mineralogist</i> <b>106</b> (2021), 226                     |
| Lead           | Pb                                                                                                               | G  | ?         | unknown              | original paper?                                                                                                                               | <i>Canadian Mineralogist</i> <b>46</b> (2008), 73                       |
| Leadamalgam    | $\text{HgPb}_2$                                                                                                  | A  | 1981-042  | China                | <i>Dizhi Lunping [Geological Review]</i> <b>27</b> (1981), 108                                                                                |                                                                         |
| Leadhillite    | $\text{Pb}_4(\text{SO}_4)(\text{CO}_3)_2(\text{OH})_2$                                                           | G  | 1832      | United Kingdom       | <i>Traité Élémentaire de Minéralogie</i> , 2nd ed. Verdière, Paris (1832), 366                                                                | <i>American Mineralogist</i> <b>90</b> (2005), 1641                     |
| Lebedevite     | $\text{K}_4\text{Na}_{14}\text{Cu}_{14}\text{O}_8(\text{AsO}_4)_8\text{Cl}_6$                                    | A  | 2023-089  | Russia               | <i>CNMNC Newsletter</i> 77 - <i>Mineralogical Magazine</i> <b>88</b> (2024), 203; <i>European Journal of Mineralogy</i> <b>36</b> (2024), 165 |                                                                         |
| Lechatelierite | $\text{SiO}_2$                                                                                                   | Q  | 1915      | Niger                | <i>Bulletin de la Société Française de Minéralogie</i> <b>38</b> (1915), 182                                                                  |                                                                         |

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|----------------|------------------------------------------------------------------------------------------------------------------------------|----|-----------|---------------------|----------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| Lechnerite     | $\text{Ag}_{10}\text{Cu}_4\text{HgPb}_{33}\text{Sb}_{58}\text{S}_{128}$                                                      | A  | 2024-075  | Italy               | CNMNC Newsletter 84 - <i>Mineralogical Magazine</i> <b>89</b> (2025), 298; <i>European Journal of Mineralogy</i> <b>37</b> (2025), 249 |                                                                                    |
| Lecontite      | $(\text{NH}_4)\text{Na}(\text{SO}_4)(\text{H}_2\text{O})_2$                                                                  | G  | 1858      | Honduras            | <i>American Journal of Science and Arts</i> <b>26</b> (1858), 273                                                                      | <i>IUCrData</i> <b>5</b> (2020), x201275                                           |
| Lecoquite-(Y)  | $\text{Na}_3\text{Y}(\text{CO}_3)_3(\text{H}_2\text{O})_6$                                                                   | A  | 2008-069  | Canada              | <i>Canadian Mineralogist</i> <b>48</b> (2010), 95                                                                                      | <i>Comptes Rendus Chimie</i> <b>7</b> (2004), 661                                  |
| Lednevite      | $\text{Cu}[\text{PO}_3(\text{OH})](\text{H}_2\text{O})$                                                                      | A  | 2023-094  | Russia              | <i>Zapiski Rossiyskogo Mineralogicheskogo Obshchestva</i> <b>153(2)</b> (2024), 71                                                     |                                                                                    |
| Leesite        | $\text{K}(\text{H}_2\text{O})_2[(\text{UO}_2)_4\text{O}_2(\text{OH})_5]\cdot 3\text{H}_2\text{O}$                            | A  | 2016-064  | USA                 | <i>American Mineralogist</i> <b>103</b> (2018), 143                                                                                    |                                                                                    |
| Lefontite      | $\text{Fe}_2\text{Al}_2\text{Be}(\text{PO}_4)_2(\text{OH})_6$                                                                | A  | 2014-075  | Brazil              | CNMNC Newsletter 23 - <i>Mineralogical Magazine</i> <b>79</b> (2015), 51                                                               |                                                                                    |
| Legrandite     | $\text{Zn}_2(\text{AsO}_4)(\text{OH})(\text{H}_2\text{O})$                                                                   | G  | 1932      | Mexico              | <i>Mineralogical Magazine</i> <b>23</b> (1932), 175                                                                                    | <i>Journal of Mineralogical and Petrological Sciences</i> <b>111</b> (2016), 35    |
| Leguernite     | $\text{Bi}_{12.67}\text{O}_{14}(\text{SO}_4)_5$                                                                              | A  | 2013-051  | Italy               | <i>Mineralogical Magazine</i> <b>78</b> (2014), 1629                                                                                   |                                                                                    |
| Lehmannite     | $\text{Na}_{18}\text{Cu}_{12}\text{TiO}_8(\text{AsO}_4)_8\text{FCl}_5$                                                       | A  | 2017-057a | Russia              | <i>Zapiski Rossiyskogo Mineralogicheskogo Obshchestva</i> <b>149(3)</b> (2020), 1                                                      |                                                                                    |
| Lehnerite      | $\text{Mn}^{2+}(\text{UO}_2)_2(\text{PO}_4)_2\cdot 8\text{H}_2\text{O}$                                                      | A  | 1986-032  | Germany             | <i>Aufschluss</i> <b>39</b> (1988), 209                                                                                                |                                                                                    |
| Leifite        | $\text{Na}_7\text{Be}_2(\text{Si}_{15}\text{Al}_3)\text{O}_{39}(\text{F},\text{OH})_2$                                       | Rd | 2002 s.p. | Denmark (Greenland) | <i>Meddelelser om Grønland</i> <b>51</b> (1915), 429                                                                                   | <i>Canadian Mineralogist</i> <b>40</b> (2002), 183                                 |
| Leightonite    | $\text{K}_2\text{Ca}_2\text{Cu}(\text{SO}_4)_4(\text{H}_2\text{O})_2$                                                        | G  | 1938      | Chile               | <i>American Mineralogist</i> <b>23</b> (1938), 34                                                                                      | <i>Zapiski Rossiyskogo Mineralogicheskogo Obshchestva</i> <b>152(4)</b> (2023), 99 |
| Leishmanite    | $\text{Ba}(\text{H}_2\text{O})_4[(\text{UO}_2)_3\text{O}_2(\text{OH})_3]_2\cdot 3\text{H}_2\text{O}$                         | A  | 2026-002  | Switzerland         | CNMNC Newsletter 91 - <i>Mineralogical Magazine</i> <b>90</b> (2026), xxx; <i>European Journal of Mineralogy</i> <b>38</b> (2026), 347 |                                                                                    |
| Leisingite     | $[\text{Mg}(\text{H}_2\text{O})_6]\text{Cu}_2\text{MgTe}^{6+}\text{O}_6$                                                     | A  | 1995-011  | USA                 | <i>Mineralogical Magazine</i> <b>60</b> (1996), 653                                                                                    | <i>Canadian Mineralogist</i> <b>35</b> (1997), 759                                 |
| Leiteite       | $\text{ZnAs}^{3+}_2\text{O}_4$                                                                                               | A  | 1976-026  | Namibia             | <i>Mineralogical Record</i> <b>8</b> (1977), 95                                                                                        | <i>American Mineralogist</i> <b>72</b> (1987), 629                                 |
| Lemanskiite    | $\text{NaCaCu}_5(\text{AsO}_4)_4\text{Cl}(\text{H}_2\text{O})_3$                                                             | A  | 1999-037  | Chile               | <i>Canadian Mineralogist</i> <b>44</b> (2006), 523                                                                                     | <i>Zapiski Rossiyskogo Mineralogicheskogo Obshchestva</i> <b>146(6)</b> (2017), 43 |
| Lemmleinite-Ba | $\text{Na}_4\text{K}_4\text{Ba}_{2+x}\text{Ti}_8(\text{Si}_4\text{O}_{12})_4(\text{OH},\text{O})_8\cdot 8\text{H}_2\text{O}$ | A  | 1998-052a | Russia              | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>130(3)</b> (2001), 36                                                  | <i>American Mineralogist</i> <b>89</b> (2004), 1655                                |
| Lemmleinite-K  | $\text{Na}_4\text{K}_8\text{Ti}_8(\text{Si}_4\text{O}_{12})_4(\text{OH},\text{O})_8\cdot 8\text{H}_2\text{O}$                | Rn | 1997-003  | Russia              | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>128(5)</b> (1999), 54                                                  | <i>American Mineralogist</i> <b>89</b> (2004), 1655                                |
| Lemoynite      | $\text{Na}_2\text{CaZr}_2\text{Si}_{10}\text{O}_{26}(\text{H}_2\text{O})_{5-6}$                                              | A  | 1968-013  | Canada              | <i>Canadian Mineralogist</i> <b>9</b> (1969), 585                                                                                      | <i>Canadian Mineralogist</i> <b>14</b> (1976), 132                                 |
| Lenaite        | $\text{AgFeS}_2$                                                                                                             | A  | 1994-008  | Russia              | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>124(5)</b> (1995), 85                                                  | <i>Canadian Mineralogist</i> <b>44</b> (2006), 207                                 |
| Lengenbachite  | $\text{Ag}_4\text{Cu}_2\text{Pb}_{18}\text{As}_{12}\text{S}_{39}$                                                            | G  | 1905      | Switzerland         | <i>Mineralogical Magazine</i> <b>14</b> (1905), 72                                                                                     | <i>Neues Jahrbuch für Mineralogie Abhandlungen</i> <b>166</b> (1994), 169          |
| Leningradite   | $\text{PbCu}_3(\text{VO}_4)_2\text{Cl}_2$                                                                                    | A  | 1988-014  | Russia              | <i>Doklady Akademii Nauk SSSR</i> <b>310</b> (1990), 1434                                                                              | <i>Canadian Mineralogist</i> <b>45</b> (2007), 445                                 |
| Lennilenapeite | $\text{K}_4\text{Mn}^{2+}_{48}(\text{Si}_{64}\text{Al}_8)\text{O}_{164}(\text{OH})_{52}\cdot n\text{H}_2\text{O}$            | Rd | 1982-085  | USA                 | <i>Canadian Mineralogist</i> <b>22</b> (1984), 259                                                                                     |                                                                                    |

|                   |                                                                                                 |    |           |                                  |                                                                                                     |                                                                                       |
|-------------------|-------------------------------------------------------------------------------------------------|----|-----------|----------------------------------|-----------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Lenoblite         | $V^{4+}_2O_4 \cdot 2H_2O$                                                                       | A  | 1970-002  | Gabon                            | <i>Bulletin de la Société Française de Minéralogie et de Cristallographie</i> <b>93</b> (1970), 235 |                                                                                       |
| Leogangite        | $Cu_{10}(AsO_4)_4(SO_4)(OH)_6(H_2O)_4 \cdot 4H_2O$                                              | A  | 1998-032  | Austria                          | <i>Mineralogy and Petrology</i> <b>81</b> (2004), 187                                               |                                                                                       |
| Leonardsenite     | $MgAlF_5(H_2O)_2$                                                                               | A  | 2011-059  | Iceland                          | <i>Canadian Mineralogist</i> <b>51</b> (2013), 377                                                  |                                                                                       |
| Leonite           | $K_2Mg(SO_4)_2(H_2O)_4$                                                                         | G  | 1896      | Germany                          | <i>Zeitschrift der Deutschen Geologischen Gesellschaft</i> <b>48</b> (1896), 632                    | <i>American Mineralogist</i> <b>86</b> (2001), 1282                                   |
| Leószilárdite     | $Na_6Mg(UO_2)_2(CO_3)_6(H_2O)_6$                                                                | A  | 2015-128  | USA                              | <i>Mineralogical Magazine</i> <b>81</b> (2017), 1039                                                |                                                                                       |
| Lepageite         | $Mn^{2+}_3(Fe^{3+}_7Fe^{2+}_4)O_3[Sb^{3+}_5As^{3+}_8O_{34}]$                                    | A  | 2018-028  | Poland                           | <i>American Mineralogist</i> <b>104</b> (2019), 1043                                                |                                                                                       |
| Lepersonnite-(Gd) | $[Ca_{0.5}Gd_{0.5}(H_2O)_{18}(OH)_{1.5}][Gd(UO_2)_{12}(SiO_3OH)_2(CO_3)_4(OH)_{10}O_2(H_2O)_5]$ | Rn | 1987 s.p. | Democratic Republic of the Congo | <i>Canadian Mineralogist</i> <b>20</b> (1982), 231                                                  | <i>Mineralogical Magazine</i> <b>89</b> (2025), 549                                   |
| Lepersonnite-(Nd) | $[Nd(H_2O)_{18}(OH)_2][Nd(UO_2)_{12}(SiO_3OH)_2(CO_3)_4(OH)_{10}O_2(H_2O)_5]$                   | A  | 2021-066  | Democratic Republic of the Congo | <i>Mineralogical Magazine</i> <b>89</b> (2025), 549                                                 | <a href="https://doi.org/10.1180/mgm.2025.29">https://doi.org/10.1180/mgm.2025.29</a> |
| Lepidocrocite     | $Fe^{3+}O(OH)$                                                                                  | A  | 1980 s.p. | Czech Republic                   | Handbuch der Mineralogie. Vandenhoeck und Ruprecht, Göttingen (1813)                                | <i>American Mineralogist</i> <b>88</b> (2003), 846                                    |
| Lepkhenelmit-Zn   | $Ba_2Zn(Ti,Nb)_4(Si_4O_{12})_2(O,OH)_4 \cdot 7H_2O$                                             | A  | 2003-003  | Russia                           | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>133(1)</b> (2004), 49               |                                                                                       |
| Lermontovite      | $U^{4+}(PO_4)(OH) \cdot H_2O$                                                                   | G  | 1956      | Russia                           | Handbook for Determination of Uranium Minerals. Gosgeoltekhizdat, Moscow (1956), 199                | <i>Mineralogicheskij Zhurnal</i> <b>5</b> (1983), 82                                  |
| Letnikovite-(Ce)  | $(Na\Box)Ca_2Ce_2[Si_7O_{17}(OH)]F_4(H_2O)_4$                                                   | A  | 2022-132  | Tajikistan                       | <i>Mineralogical Magazine</i> <b>87</b> (2023), 807                                                 |                                                                                       |
| Letovicite        | $(NH_4)_3H(SO_4)_2$                                                                             | G  | 1932      | Czech Republic                   | <i>Zeitschrift für Kristallographie, Mineralogie und Petrographie</i> <b>83</b> (1932), 117         | <i>Journal of Solid State Chemistry</i> <b>165</b> (2002), 136                        |
| Leucite           | $K(AlSi_2O_6)$                                                                                  | A  | 1997 s.p. | Italy                            | <i>Bergmannisches Journal</i> <b>2</b> (1791), 483                                                  | <i>American Mineralogist</i> <b>93</b> (2008), 1588                                   |
| Leucophanite      | $NaCaBeSi_2O_6F$                                                                                | G  | 1840      | Norway                           | <i>Kongliga Svenska Vetenskaps-Akademiens Handlingar</i> (1840), 191                                | <i>Mineralogical Magazine</i> <b>71</b> (2007), 625                                   |
| Leucophoenicite   | $Mn^{2+}_7(SiO_4)_3(OH)_2$                                                                      | G  | 1899      | USA                              | <i>American Journal of Science</i> <b>8</b> (1899), 339                                             | <i>American Mineralogist</i> <b>87</b> (2002), 154                                    |
| Leucophosphite    | $KFe^{3+}_2(PO_4)_2(OH)(H_2O)_2$                                                                | G  | 1932      | Australia                        | <i>Journal of the Royal Society of Western Australia</i> <b>18</b> (1932), 69                       | <i>Periodico di Mineralogia</i> <b>88</b> (2019), 325                                 |
| Leucosphenite     | $Na_4BaTi_2B_2Si_{10}O_{30}$                                                                    | G  | 1901      | Denmark (Greenland)              | <i>Meddelelser om Grønland</i> <b>24</b> (1901), 137                                                | <i>Doklady Akademii Nauk SSSR</i> <b>257</b> (1981), 1128                             |
| Leucostaurite     | $Pb_2B_5O_9Cl(H_2O)_{0.5}$                                                                      | A  | 2007-047  | Chile                            | <i>American Mineralogist</i> <b>97</b> (2012), 1206                                                 |                                                                                       |
| Levantite         | $KCa_3(Al_2Si_3O_{11})(PO_4)$                                                                   | A  | 2017-010  | Israel                           | <i>Mineralogical Magazine</i> <b>83</b> (2019), 713                                                 |                                                                                       |
| Leverettite       | $Cu_3Co(OH)_6Cl_2$                                                                              | A  | 2013-011  | Chile                            | <i>Mineralogical Magazine</i> <b>77</b> (2013), 3047                                                |                                                                                       |
| Levinsonite-(Y)   | $YAl(SO_4)_2(C_2O_4)(H_2O)_4 \cdot 8H_2O$                                                       | A  | 1996-057  | USA                              | <i>Geochimica et Cosmochimica Acta</i> <b>65</b> (2001), 1101                                       |                                                                                       |
| Lévyclaudite      | $Pb_8Cu_3Sn_7(Bi,Sb)_3S_{28}$                                                                   | A  | 1989-034  | Greece                           | <i>European Journal of Mineralogy</i> <b>2</b> (1990), 711                                          | <i>Acta Crystallographica</i> <b>B62</b> (2006), 775                                  |
| Lévyne-Ca         | $Ca_3(Si_{12}Al_6)O_{36} \cdot 18H_2O$                                                          | Rn | 1997 s.p. | Denmark (Faroe Islands)          | <i>Edinburgh Journal of Science</i> <b>2</b> (1825), 332                                            | <i>American Mineralogist</i> <b>105</b> (2020), 1631                                  |
| Lévyne-Na         | $Na_6(Si_{12}Al_6)O_{36} \cdot 18H_2O$                                                          | Rn | 1997 s.p. | Japan                            | <i>Memoirs of the Geological Society of Japan</i> <b>11</b> (1974), 283                             | <i>Mineralogical Magazine</i> <b>77</b> (2013), 2887                                  |

|               |                                                                                                                                                                         |    |           |                                  |                                                                                                                                        |                                                                                             |
|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----------|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| Leybovite-K   | KCuNa(MgFe <sup>3+</sup> )(AsO <sub>4</sub> ) <sub>3</sub>                                                                                                              | A  | 2025-007  | Russia                           | CNMNC Newsletter 86 - <i>Mineralogical Magazine</i> <b>89</b> (2025), 544; <i>European Journal of Mineralogy</i> <b>37</b> (2025), 549 |                                                                                             |
| Leydetite     | Fe(UO <sub>2</sub> )(SO <sub>4</sub> ) <sub>2</sub> (H <sub>2</sub> O) <sub>8</sub> ·3H <sub>2</sub> O                                                                  | A  | 2012-065  | France                           | <i>Mineralogical Magazine</i> <b>77</b> (2013), 429                                                                                    |                                                                                             |
| Lianbinitite  | (NH <sub>4</sub> )(C <sub>2</sub> H <sub>3</sub> O <sub>3</sub> )(C <sub>2</sub> H <sub>4</sub> O <sub>3</sub> )                                                        | A  | 2023-016  | USA                              | <i>American Mineralogist</i> <b>110</b> (2025), 1481                                                                                   |                                                                                             |
| Liandratite   | U <sup>6+</sup> Nb <sub>2</sub> O <sub>8</sub>                                                                                                                          | A  | 1975-039  | Madagascar                       | <i>American Mineralogist</i> <b>63</b> (1978), 941                                                                                     |                                                                                             |
| Liangjunite   | K <sub>2</sub> (Mo <sub>2</sub> O <sub>5</sub> )(SO <sub>4</sub> ) <sub>2</sub> (H <sub>2</sub> O) <sub>3</sub>                                                         | A  | 2022-060  | USA                              | CNMNC Newsletter 70 - <i>Mineralogical Magazine</i> <b>87</b> (2023), 160; <i>European Journal of Mineralogy</i> <b>34</b> (2022), 591 | <a href="https://doi.org/10.1180/mgm.2025.10162">https://doi.org/10.1180/mgm.2025.10162</a> |
| Libbyite      | (NH <sub>4</sub> ) <sub>2</sub> (Na <sub>2</sub> □)[(UO <sub>2</sub> ) <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> (H <sub>2</sub> O)] <sub>2</sub> ·7H <sub>2</sub> O | A  | 2022-091  | USA                              | <i>Mineralogical Magazine</i> <b>87</b> (2023), 767                                                                                    |                                                                                             |
| Liberite      | Li <sub>2</sub> Be(SiO <sub>4</sub> )                                                                                                                                   | A  | 1967 s.p. | China                            | <i>Acta Geologica Sinica</i> <b>44</b> (1964), 334                                                                                     | <i>Journal of Mineralogy and Geochemistry</i> <b>191</b> (2014), 311                        |
| Libethenite   | Cu <sub>2</sub> (PO <sub>4</sub> )(OH)                                                                                                                                  | G  | 1823      | Slovakia                         | Vollständige Charakteristik des Mineral-Systems. Arnoldische, Dresden (1823), 266                                                      | <i>Mineralogical Magazine</i> <b>74</b> (2010), 553                                         |
| Liddicoatite  | Ca(Li <sub>2</sub> Al)Al <sub>6</sub> (Si <sub>6</sub> O <sub>18</sub> )(BO <sub>3</sub> ) <sub>3</sub> (OH) <sub>3</sub> (OH)                                          | A  | 2025-047  | Czech Republic                   | CNMNC Newsletter 87 - <i>Mineralogical Magazine</i> <b>89</b> (2025), 706; <i>European Journal of Mineralogy</i> <b>37</b> (2025), 695 |                                                                                             |
| Liebauite     | Ca <sub>3</sub> Cu <sub>5</sub> Si <sub>9</sub> O <sub>26</sub>                                                                                                         | A  | 1990-040  | Germany                          | <i>Zeitschrift für Kristallographie</i> <b>200</b> (1992), 115                                                                         |                                                                                             |
| Liebenbergite | Ni <sub>2</sub> (SiO <sub>4</sub> )                                                                                                                                     | A  | 1972-033  | South Africa                     | <i>American Mineralogist</i> <b>58</b> (1973), 733                                                                                     | <i>Physics and Chemistry of Minerals</i> <b>51</b> (2024), 35                               |
| Liebermannite | KAlSi <sub>3</sub> O <sub>8</sub>                                                                                                                                       | A  | 2013-128  | Nigeria (meteorite)              | <i>Meteoritics &amp; Planetary Science</i> <b>53</b> (2018), 50                                                                        | <i>Comptes Rendus Geoscience</i> <b>351</b> (2019), 113                                     |
| Liebigite     | Ca <sub>2</sub> (UO <sub>2</sub> )(CO <sub>3</sub> ) <sub>3</sub> (H <sub>2</sub> O) <sub>8</sub> ·3H <sub>2</sub> O                                                    | G  | 1848      | Turkey                           | <i>American Journal of Science and Arts</i> <b>5</b> (1848), 336                                                                       | <i>Minerals</i> <b>8</b> (2018), 414                                                        |
| Liguowuite    | WO <sub>3</sub>                                                                                                                                                         | A  | 2020-097  | China                            | <i>European Journal of Mineralogy</i> <b>34</b> (2022), 95                                                                             |                                                                                             |
| Likasite      | Cu <sub>3</sub> (NO <sub>3</sub> )(OH) <sub>5</sub> (H <sub>2</sub> O)·H <sub>2</sub> O                                                                                 | G  | 1955      | Democratic Republic of the Congo | <i>Bulletin de la Société Française de Minéralogie et de Cristallographie</i> <b>78</b> (1955), 84                                     | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1986), 101                               |
| Lileyite      | Ba <sub>2</sub> Ti <sub>2</sub> Na(NaFe <sup>2+</sup> )Mg(Si <sub>2</sub> O <sub>7</sub> ) <sub>2</sub> O <sub>2</sub> F <sub>2</sub>                                   | Rd | 2011-021  | Germany                          | <i>European Journal of Mineralogy</i> <b>24</b> (2012), 181                                                                            |                                                                                             |
| Lillianite    | Pb <sub>3-2x</sub> Ag <sub>x</sub> Bi <sub>2+x</sub> S <sub>6</sub>                                                                                                     | G  | 1890      | USA                              | <i>Zeitschrift für Krystallographie und Mineralogie</i> <b>17</b> (1890), 67                                                           | <i>Canadian Mineralogist</i> <b>44</b> (2006), 159                                          |
| Lime          | CaO                                                                                                                                                                     | G  | 1882      | Italy                            | <i>Memorie della Società Italiana di Scienze Matematiche e Fisiche, detta dei XL, Serie III</i> <b>4</b> (1882), 34 p.                 | <i>Physics and Chemistry of Minerals</i> <b>27</b> (1999), 103                              |
| Limousinite   | BaCa[Be <sub>4</sub> P <sub>4</sub> O <sub>16</sub> ]·6H <sub>2</sub> O                                                                                                 | A  | 2019-011  | France                           | <i>Canadian Mineralogist</i> <b>58</b> (2020), 815                                                                                     |                                                                                             |
| Linarite      | PbCu(SO <sub>4</sub> )(OH) <sub>2</sub>                                                                                                                                 | G  | 1822      | Spain                            | <i>Annals of Philosophy</i> <b>4</b> (1822), 117                                                                                       | <i>Canadian Mineralogist</i> <b>47</b> (2009), 649                                          |
| Lindackerite  | Cu <sub>5</sub> (AsO <sub>4</sub> ) <sub>2</sub> (AsO <sub>3</sub> OH) <sub>2</sub> (H <sub>2</sub> O) <sub>8</sub> ·H <sub>2</sub> O                                   | Rd | 1995 s.p. | Czech Republic                   | <i>Jahrbuch der Kaiserlich-Königlichen Geologischen Reichsanstalt</i> <b>4</b> (1853), 221                                             | <i>European Journal of Mineralogy</i> <b>15</b> (2003), 1035                                |
| Lindbergite   | Mn(C <sub>2</sub> O <sub>4</sub> )(H <sub>2</sub> O) <sub>2</sub>                                                                                                       | A  | 2003-029  | Brazil                           | <i>American Mineralogist</i> <b>89</b> (2004), 1087                                                                                    | <i>Physics and Chemistry of Minerals</i> <b>35</b> (2008), 467                              |
| Lindgrenite   | Cu <sub>3</sub> (Mo <sup>6+</sup> O <sub>4</sub> ) <sub>2</sub> (OH) <sub>2</sub>                                                                                       | G  | 1935      | Chile                            | <i>American Mineralogist</i> <b>20</b> (1935), 484                                                                                     | <i>Physics and Chemistry of Minerals</i> <b>46</b> (2019), 437                              |
| Lindqvistite  | Pb <sub>2</sub> Mn <sup>2+</sup> Fe <sup>3+</sup> <sub>16</sub> O <sub>27</sub>                                                                                         | A  | 1991-038  | Sweden                           | <i>American Mineralogist</i> <b>78</b> (1993), 1304                                                                                    |                                                                                             |
| Lindsleyite   | (Ba,Sr)(Zr,Ca)(Fe,Mg) <sub>2</sub> (Ti,Cr,Fe) <sub>18</sub> O <sub>38</sub>                                                                                             | A  | 1982-086  | South Africa                     | <i>American Mineralogist</i> <b>68</b> (1983), 494                                                                                     | <i>Canadian Mineralogist</i> <b>33</b> (1995), 1083                                         |

|                  |                                                                                                                                           |   |           |                   |                                                                                                                                        |                                                                |
|------------------|-------------------------------------------------------------------------------------------------------------------------------------------|---|-----------|-------------------|----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|
| Lindströmite     | $\text{Cu}_3\text{Pb}_3\text{Bi}_7\text{S}_{15}$                                                                                          | A | 1975-005a | Sweden            | <i>American Mineralogist</i> <b>61</b> (1976), 15                                                                                      | <i>Canadian Mineralogist</i> <b>46</b> (2008), 525             |
| Línkite          | $\text{K}_2\text{Ca}_3[(\text{UO}_2)(\text{CO}_3)_3]_2(\text{H}_2\text{O})_8$                                                             | A | 2012-066  | Czech Republic    | <i>Journal of Geosciences</i> <b>62</b> (2017), 201                                                                                    |                                                                |
| Lingbaoite       | $\text{AgTe}_3$                                                                                                                           | A | 2018-138  | China             | <i>American Mineralogist</i> <b>105</b> (2020), 745                                                                                    |                                                                |
| Lingunite        | $\text{NaAlSi}_3\text{O}_8$                                                                                                               | A | 2004-054  | China (meteorite) | <i>Earth and Planetary Science Letters</i> <b>246</b> (2006), 317                                                                      | <i>International Geology Review</i> <b>49</b> (2007), 854      |
| Linnaeite        | $\text{Co}^{2+}\text{Co}^{3+}_2\text{S}_4$                                                                                                | G | 1845      | Sweden            | Handbuch der Bestimmenden Mineralogie. Braumüller and Seidel, Wien (1845), 559                                                         | <i>Canadian Journal of Chemistry</i> <b>46</b> (1968), 3463    |
| Lintisite        | $\text{Na}_3\text{LiTi}_2\text{O}_2(\text{SiO}_3)_4(\text{H}_2\text{O})_2$                                                                | A | 1989-025  | Russia            | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>119(3)</b> (1990), 76                                                  | <i>Zeitschrift für Kristallographie</i> <b>193</b> (1990), 137 |
| Linzhiite        | $\text{FeSi}_2$                                                                                                                           | A | 2010-011  | China             | <i>European Journal of Mineralogy</i> <b>24</b> (2012), 1047                                                                           |                                                                |
| Liottite         | $\text{Na}_{16}\text{Ca}_8\text{Si}_{18}\text{Al}_{18}\text{O}_{72}(\text{SO}_4)_5\text{Cl}_4$                                            | A | 1975-036  | Italy             | <i>American Mineralogist</i> <b>62</b> (1977), 321                                                                                     | <i>Canadian Mineralogist</i> <b>34</b> (1996), 1021            |
| Lipscombite      | $\text{Fe}^{2+}\text{Fe}^{3+}_2(\text{PO}_4)_2(\text{OH})_2$                                                                              | G | 1962      | Brazil            | <i>American Mineralogist</i> <b>47</b> (1962), 353                                                                                     | <i>Crystallography Reports</i> <b>51</b> (2006), 401           |
| Lipuie           | $\text{KNa}_8\text{Mn}^{3+}_5\text{Mg}_{0.5}[\text{Si}_{12}\text{O}_{30}(\text{OH})_4](\text{PO}_4)_2(\text{OH})_2(\text{H}_2\text{O})_4$ | A | 2014-085  | South Africa      | <i>Mineralogical Magazine</i> <b>83</b> (2019), 645                                                                                    |                                                                |
| Liraite          | $\text{NaCa}_2\text{Mn}^{2+}_2[\text{Fe}^{3+}\text{Fe}^{2+}]\text{Mn}^{2+}_2(\text{PO}_4)_6(\text{H}_2\text{O})_2$                        | A | 2019-085  | Argentina         | <i>Canadian Mineralogist</i> <b>59</b> (2021), 751                                                                                     |                                                                |
| Liroconite       | $\text{Cu}_2\text{Al}(\text{AsO}_4)(\text{OH})_4(\text{H}_2\text{O})_4$                                                                   | G | 1825      | United Kingdom    | Treatise on Mineralogy vol. 1. Archibald Constable, Edinburgh (1825), 416                                                              | <i>European Journal of Mineralogy</i> <b>32</b> (2020), 285    |
| Lisanite         | $\text{CaNiP}_2\text{O}_7$                                                                                                                | A | 2021-014  | Israel            | CNMNC Newsletter 61 - <i>Mineralogical Magazine</i> <b>85</b> (2021), 459; <i>European Journal of Mineralogy</i> <b>33</b> (2021), 299 |                                                                |
| Lisetite         | $\text{Na}_2\text{CaAl}_4(\text{SiO}_4)_4$                                                                                                | A | 1985-017  | Norway            | <i>American Mineralogist</i> <b>71</b> (1986), 1372                                                                                    | <i>American Mineralogist</i> <b>71</b> (1986), 1378            |
| Lishiite         | $(\text{Ca}_2\Box)\text{Sr}_3(\text{CO}_3)_5$                                                                                             | A | 2022-121a | China             | CNMNC Newsletter 77 - <i>Mineralogical Magazine</i> <b>88</b> (2024), 203; <i>European Journal of Mineralogy</i> <b>36</b> (2024), 165 |                                                                |
| Lishizhenite     | $\text{ZnFe}^{3+}_2(\text{SO}_4)_4 \cdot 14\text{H}_2\text{O}$                                                                            | A | 1989-002  | China             | <i>Acta Mineralogica Sinica</i> <b>10</b> (1990), 299                                                                                  | <i>Kexue Tongbao</i> <b>33</b> (1988), 1783                    |
| Lisiguangite     | $\text{CuPtBiS}_3$                                                                                                                        | A | 2007-003  | China             | <i>Acta Geologica Sinica</i> <b>83</b> (2009), 238                                                                                     | <i>Acta Geologica Sinica</i> <b>91</b> (2017), 1270            |
| Lisitsynite      | $\text{KBSi}_2\text{O}_6$                                                                                                                 | A | 2000-008  | Russia            | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>129(6)</b> (2000), 35                                                  | <i>Canadian Mineralogist</i> <b>39</b> (2001), 159             |
| Liskeardite      | $(\text{Al},\text{Fe})_{32}(\text{AsO}_4)_{18}(\text{OH})_{42}(\text{H}_2\text{O})_{22} \cdot 52\text{H}_2\text{O}$                       | G | 1878      | United Kingdom    | <i>Nature</i> <b>18</b> (1878), 426                                                                                                    | <i>Mineralogical Magazine</i> <b>77</b> (2013), 3125           |
| Lislkirchnerite  | $\text{Pb}_6\text{Al}(\text{OH})_8\text{Cl}_2(\text{NO}_3)_5 \cdot 2\text{H}_2\text{O}$                                                   | A | 2015-064  | Argentina         | CNMNC Newsletter 27 - <i>Mineralogical Magazine</i> <b>79</b> (2015), 1223                                                             |                                                                |
| Litharge         | $\text{PbO}$                                                                                                                              | G | 1917      | USA               | <i>American Mineralogist</i> <b>2</b> (1917), 18                                                                                       | <i>Journal of Solid State Chemistry</i> <b>57</b> (1985), 343  |
| Lithiomarsturite | $\text{LiCaMn}^{2+}_3\text{Si}_5\text{O}_{14}(\text{OH})$                                                                                 | A | 1988-035  | USA               | <i>American Mineralogist</i> <b>75</b> (1990), 409                                                                                     | <i>Acta Crystallographica</i> <b>E67</b> (2011), i73           |
| Lithiophilite    | $\text{LiMn}^{2+}(\text{PO}_4)$                                                                                                           | G | 1878      | USA               | <i>American Journal of Science and Arts</i> <b>116</b> (1878), 33                                                                      | <i>Canadian Mineralogist</i> <b>42</b> (2004), 1105            |
| Lithiophorite    | $(\text{Al},\text{Li})(\text{Mn}^{4+},\text{Mn}^{3+})\text{O}_2(\text{OH})_2$                                                             | G | 1870      | Germany           | <i>Journal für Praktische Chemie</i> <b>110</b> (1870), 203                                                                            | <i>American Mineralogist</i> <b>79</b> (1994), 370             |
| Lithiophosphate  | $\text{Li}_3(\text{PO}_4)$                                                                                                                | G | 1957      | Russia            | <i>Doklady Akademii Nauk SSSR</i> <b>112</b> (1957), 124                                                                               | <i>Journal of Solid State Chemistry</i> <b>115</b> (1995), 313 |
| Lithiotantite    | $\text{LiTa}_3\text{O}_8$                                                                                                                 | A | 1982-022  | Kazakhstan        | <i>Mineralogiceskij Zhurnal</i> <b>5(1)</b> (1983), 91                                                                                 | <i>Acta Crystallographica</i> <b>E68</b> (2012), i27           |
| Lithiowodginite  | $\text{LiTa}_3\text{O}_8$                                                                                                                 | A | 1988-011  | Kazakhstan        | <i>Mineralogiceskij Zhurnal</i> <b>12(1)</b> (1990), 94                                                                                | <i>Canadian Mineralogist</i> <b>30</b> (1992), 597             |

|                      |                                                     |    |           |                   |                                                                                                                                        |                                                                                       |
|----------------------|-----------------------------------------------------|----|-----------|-------------------|----------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Lithosite            | $K_3Al_2Si_4O_{12}(OH)$                             | A  | 1982-049  | Russia            | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>112</b> (1983), 218                                                      | <i>Soviet Physics Doklady</i> <b>31</b> (1986), 941                                   |
| Litidionite          | $KNaCuSi_4O_{10}$                                   | Rn | 2014 s.p. | Italy             | <i>Atti della Reale Accademia delle Scienze Fisiche e Matematiche di Napoli</i> <b>19</b> (1880), 175                                  | <i>Bulletin de Minéralogie</i> <b>104</b> (1981), 387                                 |
| Litochlebite         | $Ag_2PbBi_4Se_8$                                    | A  | 2009-036  | Czech Republic    | <i>Canadian Mineralogist</i> <b>49</b> (2011), 639                                                                                     |                                                                                       |
| Litvinskite          | $Na_3ZrSi_6O_{13}(OH)_5$                            | A  | 1999-017  | Russia            | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>129(1)</b> (2000), 45                                                  | <i>Zapiski Rossiyskogo Mineralogicheskogo Obshchestva</i> <b>150(5)</b> (2021), 134   |
| Liudongshengite      | $Zn_4Cr_2(OH)_{12}(CO_3)_3 \cdot 3H_2O$             | A  | 2019-044  | USA               | <i>Canadian Mineralogist</i> <b>59</b> (2021), 763                                                                                     |                                                                                       |
| Liuite               | $FeTiO_3$                                           | A  | 2017-042a | India (meteorite) | <i>Meteoritics &amp; Planetary Science</i> <b>60</b> (2025), 375                                                                       |                                                                                       |
| Liveingite           | $Pb_{20}As_{24}S_{56}$                              | G  | 1902      | Switzerland       | <i>Proceedings of the Cambridge Philosophical Society</i> <b>11</b> (1902), 239                                                        | <i>European Journal of Mineralogy</i> <b>31</b> (2019), 1079                          |
| Liversidgeite        | $Zn_6(PO_4)_4(H_2O)_5 \cdot 2H_2O$                  | A  | 2008-048  | Australia         | <i>American Mineralogist</i> <b>95</b> (2010), 397                                                                                     |                                                                                       |
| Livingstonite        | $HgSb_4S_6(S_2)$                                    | G  | 1874      | Mexico            | <i>American Journal of Science and Arts</i> <b>108</b> (1874), 145                                                                     | <i>Crystallography Reports</i> <b>55</b> (2010), 224                                  |
| Lizardite            | $Mg_3Si_2O_5(OH)_4$                                 | G  | 1956      | United Kingdom    | <i>Mineralogical Magazine</i> <b>31</b> (1956), 107                                                                                    | <i>European Journal of Mineralogy</i> <b>33</b> (2021), 425                           |
| Llanteneseite        | $Cu_6Al(SeO_4)(OH)_{12}Cl \cdot 3H_2O$              | A  | 2018-111  | Argentina         | CNMNC Newsletter 47 - <i>Mineralogical Magazine</i> <b>83</b> (2019), 143; <i>European Journal of Mineralogy</i> <b>31</b> (2019), 197 |                                                                                       |
| Lobanovite           | $K_2Na(Fe^{2+}_4Mg_2Na)Ti_2(Si_4O_{12})_2O_2(OH)_4$ | A  | 2015 s.p. | Russia            | <i>Mineralogical Magazine</i> <b>81</b> (2017), 175                                                                                    | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>153(2)</b> (2024), 89 |
| Lokkaite-(Y)         | $CaY_4(CO_3)_7 \cdot 9H_2O$                         | Rn | 1987 s.p. | Finland           | <i>Bulletin of the Geological Society of Finland</i> <b>43</b> (1970), 67                                                              |                                                                                       |
| Löllingite           | $FeAs_2$                                            | G  | 1845      | Austria           | Handbuch der Bestimmenden Mineralogie. Braumüller and Seidel, Wien (1845), 559                                                         | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (2001), 169                         |
| Lombardoite          | $Ba_2Mn^{3+}(AsO_4)_2(OH)$                          | A  | 2016-058  | Italy             | <i>Mineralogical Magazine</i> <b>86</b> (2022), 447                                                                                    |                                                                                       |
| Lomonosovite         | $Na_6Na_2Ti_2Na_2Ti_2(Si_2O_7)_2(PO_4)_2O_4$        | Rd | 1967 s.p. | Russia            | <i>Doklady Akademii Nauk SSSR</i> <b>70</b> (1950), 83                                                                                 | <i>Crystallography Reports</i> <b>65</b> (2020), 422                                  |
| Londonite            | $CsBe_4Al_4(B_{11}Be)O_{28}$                        | A  | 1999-014  | Madagascar        | <i>Canadian Mineralogist</i> <b>39</b> (2001), 747                                                                                     | <i>Canadian Mineralogist</i> <b>48</b> (2010), 241                                    |
| Lonecreekite         | $(NH_4)Fe^{3+}(SO_4)_2(H_2O)_{12}$                  | A  | 1982-063  | South Africa      | <i>Annals of the Geological Survey of South Africa</i> <b>17</b> (1983), 29                                                            | <i>Journal of Geosciences</i> <b>64</b> (2019), 149                                   |
| Longshoushanite-(Ce) | $Ce_4MgAl_2Ti_2(Si_2O_7)_2O_8$                      | A  | 2025-081  | China             | CNMNC Newsletter 89 - <i>Mineralogical Magazine</i> <b>90</b> (2026), 481; <i>European Journal of Mineralogy</i> <b>38</b> (2026), 117 |                                                                                       |
| Lonsdaleite          | C                                                   | A  | 1966-044  | USA               | <i>Nature</i> <b>214</b> (1967), 587                                                                                                   | <i>Physics and Chemistry of Minerals</i> <b>52</b> (2025), 30                         |
| Loomisite            | $Ba[Be_2P_2O_8] \cdot H_2O$                         | A  | 2022-003  | USA               | <i>Mineralogical Magazine</i> <b>87</b> (2023), 79                                                                                     |                                                                                       |
| Loparite             | $(Na_{0.5}REE_{0.5})TiO_3$                          | Rn | 2017 s.p. | Russia            | <i>Izvestiya Geologicheskogo Komiteta</i> <b>44</b> (1925), 663                                                                        | <i>Mineralogy and Petrology</i> <b>111</b> (2017), 827                                |
| Lopatkaite           | $Pb_5Sb_3AsS_{11}$                                  | A  | 2012-083  | Canada            | <i>European Journal of Mineralogy</i> <b>38</b> (2026), 217                                                                            |                                                                                       |
| Lópezite             | $K_2Cr_2O_7$                                        | Rn | 2007 s.p. | Chile             | <i>American Mineralogist</i> <b>22</b> (1937), 929                                                                                     | <i>Acta Crystallographica</i> <b>C56</b> (2000), 629                                  |
| Lorándite            | $TlAsS_2$                                           | Rn | 2007 s.p. | North Macedonia   | <i>Mathematikai és Természettudományi Értesítő</i> <b>12</b> (1894), 473                                                               | <i>Neues Jahrbuch für Mineralogie Abhandlungen</i> <b>168</b> (1995), 213             |

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| Loranskite-(Y)    | (Y,Ce,Ca)(Zr,Ta) <sub>2</sub> O <sub>6</sub> (?)                                                                                      | Rn | 1987 s.p. | Russia                           | <i>Zeitschrift für Kristallographie</i> <b>31</b> (1899), 505                                                                          | <i>Comptes Rendus de l'Académie des Sciences de Paris</i> <b>250</b> (1960), 3032 |
| Lorenzenite       | Na <sub>2</sub> Ti <sub>2</sub> O <sub>3</sub> (Si <sub>2</sub> O <sub>6</sub> )                                                      | G  | 1901      | Denmark (Greenland)              | <i>Meddelelser om Grønland</i> <b>24</b> (1901), 9                                                                                     | <i>American Mineralogist</i> <b>72</b> (1987), 173                                |
| Loseyite          | Mn <sup>2+</sup> <sub>4</sub> Zn <sub>3</sub> (CO <sub>3</sub> ) <sub>2</sub> (OH) <sub>10</sub>                                      | G  | 1929      | USA                              | <i>American Mineralogist</i> <b>14</b> (1929), 150                                                                                     | <i>Acta Crystallographica</i> <b>B37</b> (1981), 1323                             |
| Lotharmeyerite    | CaZn <sub>2</sub> (AsO <sub>4</sub> ) <sub>2</sub> (H <sub>2</sub> O) <sub>2</sub>                                                    | Rd | 1982-060  | Mexico                           | <i>Mineralogical Record</i> <b>14</b> (1983), 35                                                                                       | <i>Acta Crystallographica</i> <b>E68</b> (2012), i9                               |
| Loudounite        | NaCa <sub>5</sub> Zr <sub>4</sub> Si <sub>16</sub> O <sub>40</sub> (OH) <sub>11</sub> ·8H <sub>2</sub> O                              | A  | 1982-013  | USA                              | <i>Canadian Mineralogist</i> <b>21</b> (1983), 37                                                                                      |                                                                                   |
| Loughlinite       | Na <sub>2</sub> Mg <sub>3</sub> Si <sub>6</sub> O <sub>16</sub> ·8H <sub>2</sub> O                                                    | A  | 1967 s.p. | USA                              | <i>American Mineralogist</i> <b>45</b> (1960), 270                                                                                     | <i>Canadian Mineralogist</i> <b>40</b> (2002), 1091                               |
| Louisfuchsite     | Ca <sub>2</sub> (Mg <sub>4</sub> Ti <sub>2</sub> )(Al <sub>4</sub> Si <sub>2</sub> )O <sub>20</sub>                                   | A  | 2022-024  | Northwest Africa (meteorite)     | <i>American Mineralogist</i> <b>109</b> (2024), 2006                                                                                   |                                                                                   |
| Lourenswalsite    | (K,Ba) <sub>2</sub> Ti <sub>4</sub> (Si,Al) <sub>6</sub> O <sub>14</sub> (OH) <sub>12</sub>                                           | A  | 1987-005  | USA                              | <i>Mineralogical Magazine</i> <b>51</b> (1987), 417                                                                                    |                                                                                   |
| Lovdarite         | K <sub>2</sub> Na <sub>6</sub> Be <sub>4</sub> Si <sub>14</sub> O <sub>36</sub> ·9H <sub>2</sub> O                                    | A  | 1972-009  | Russia                           | <i>Doklady Akademii Nauk SSSR</i> <b>213</b> (1973), 429                                                                               | <i>European Journal of Mineralogy</i> <b>2</b> (1990), 809                        |
| Lovingite         | (Ca,Ce,La)(Zr,Fe)(Mg,Fe) <sub>2</sub> (Ti,Fe,Cr,Al) <sub>18</sub> O <sub>38</sub>                                                     | A  | 1977-023  | Australia                        | <i>American Mineralogist</i> <b>63</b> (1978), 28                                                                                      | <i>Canadian Mineralogist</i> <b>36</b> (1998), 763                                |
| Lovozerite        | Na <sub>3</sub> CaZrSi <sub>6</sub> O <sub>15</sub> (OH) <sub>3</sub>                                                                 | G  | 1939      | Russia                           | <i>Doklady Akademii Nauk SSSR</i> <b>25</b> (1939), 753                                                                                | <i>Crystallography Reports</i> <b>46</b> (2001), 937                              |
| Löweite           | Na <sub>12</sub> Mg <sub>7</sub> (SO <sub>4</sub> ) <sub>13</sub> (H <sub>2</sub> O) <sub>15</sub>                                    | G  | 1847      | Austria                          | <i>Abhandlungen der Böhmisches Gesellschaft der Wissenschaften</i> <b>4</b> (1847), 663                                                | <i>Mineralogical Magazine</i> <b>90</b> (2026), 565                               |
| Luanheite         | Ag <sub>3</sub> Hg                                                                                                                    | A  | 1983-083  | China                            | <i>Acta Mineralogica Sinica</i> <b>4</b> (1984), 97                                                                                    |                                                                                   |
| Luanshiweite      | KLiAl <sub>1.5</sub> (Si <sub>3.5</sub> Al <sub>0.5</sub> )O <sub>10</sub> (OH) <sub>2</sub>                                          | A  | 2011-102  | China                            | <i>Acta Mineralogica Sinica</i> <b>33</b> (2013), 713                                                                                  |                                                                                   |
| Luberoite         | Pt <sub>5</sub> Se <sub>4</sub>                                                                                                       | A  | 1990-047  | Democratic Republic of the Congo | <i>European Journal of Mineralogy</i> <b>4</b> (1992), 683                                                                             | <i>Journal of the Less-Common Metals</i> <b>55</b> (1977), 185                    |
| Luboržákite       | Mn <sub>2</sub> AsSbS <sub>5</sub>                                                                                                    | A  | 2019-125  | Russia                           | <i>Mineralogical Magazine</i> <b>84</b> (2020), 738                                                                                    |                                                                                   |
| Lucabindiite      | K(As <sub>2</sub> O <sub>3</sub> ) <sub>2</sub> Cl                                                                                    | A  | 2011-010  | Italy                            | <i>American Mineralogist</i> <b>98</b> (2013), 470                                                                                     |                                                                                   |
| Lucasite-(Ce)     | CeTi <sub>2</sub> O <sub>5</sub> (OH)                                                                                                 | A  | 1986-020  | Australia                        | <i>American Mineralogist</i> <b>72</b> (1987), 1006                                                                                    |                                                                                   |
| Lucasite-(La)     | LaTi <sub>2</sub> O <sub>5</sub> (OH)                                                                                                 | A  | 2024-073  | Russia                           | CNMNC Newsletter 84 - <i>Mineralogical Magazine</i> <b>89</b> (2025), 298; <i>European Journal of Mineralogy</i> <b>37</b> (2025), 249 |                                                                                   |
| Lucchesiite       | CaFe <sup>2+</sup> <sub>3</sub> Al <sub>6</sub> (Si <sub>6</sub> O <sub>18</sub> )(BO <sub>3</sub> ) <sub>3</sub> (OH) <sub>3</sub> O | A  | 2015-043  | Sri Lanka / Czech Republic       | <i>Mineralogical Magazine</i> <b>81</b> (2017), 1                                                                                      | <i>Canadian Mineralogist</i> <b>52</b> (2014), 285                                |
| Luddenite         | Cu <sub>2</sub> Pb <sub>2</sub> Si <sub>5</sub> O <sub>14</sub> ·14H <sub>2</sub> O                                                   | A  | 1981-032  | USA                              | <i>Mineralogical Magazine</i> <b>46</b> (1982), 363                                                                                    |                                                                                   |
| Ludjibaite        | Cu <sub>5</sub> (PO <sub>4</sub> ) <sub>2</sub> (OH) <sub>4</sub>                                                                     | A  | 1987-009  | Democratic Republic of the Congo | <i>Bulletin de Minéralogie</i> <b>111</b> (1988), 167                                                                                  | <i>Structural Chemistry</i> <b>27</b> (2016), 1715                                |
| Ludlamite         | Fe <sup>2+</sup> <sub>3</sub> (PO <sub>4</sub> ) <sub>2</sub> (H <sub>2</sub> O) <sub>4</sub>                                         | G  | 1885      | United Kingdom                   | <i>Mineralogical Magazine</i> <b>6</b> (1885), 23                                                                                      | <i>Journal of Physics: Condensed Matter</i> <b>2</b> (1990), 8381                 |
| Ludlockite        | PbFe <sup>3+</sup> <sub>4</sub> As <sup>3+</sup> <sub>10</sub> O <sub>22</sub>                                                        | A  | 1969-046  | Namibia                          | <i>Mineralogical Society of Japan Special Paper</i> <b>1</b> (1970), 264                                                               | <i>Canadian Mineralogist</i> <b>34</b> (1996), 79                                 |
| Ludwigite         | Mg <sub>2</sub> Fe <sup>3+</sup> O <sub>2</sub> (BO <sub>3</sub> )                                                                    | G  | 1874      | Romania                          | <i>Mineralogische Mittheilungen</i> (1874), 59                                                                                         | <i>Acta Crystallographica</i> <b>B79</b> (2023), 368                              |
| Lueshite          | NaNbO <sub>3</sub>                                                                                                                    | A  | 1962 s.p. | Democratic Republic of the Congo | <i>Académie Royal des Sciences d'Ostre-Mer, Bulletin des Séances</i> <b>5</b> (1959), 1251                                             | <i>Physics and Chemistry of Minerals</i> <b>45</b> (2018), 77                     |
| Luetheite         | CuAl(AsO <sub>4</sub> )(OH) <sub>2</sub>                                                                                              | A  | 1976-011  | USA                              | <i>Mineralogical Magazine</i> <b>41</b> (1977), 27                                                                                     | <i>Mineralogical Magazine</i> <b>64</b> (2000), 25                                |
| Lukechangite-(Ce) | Na <sub>3</sub> Ce <sub>2</sub> (CO <sub>3</sub> ) <sub>4</sub> F                                                                     | A  | 1996-033  | Canada                           | <i>American Mineralogist</i> <b>82</b> (1997), 1255                                                                                    |                                                                                   |

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| Lukkulaisvaaraite | $\text{Pd}_{14}\text{Ag}_2\text{Te}_9$                                                                                                                      | A | 2013-115  | Russia                | <i>Mineralogical Magazine</i> <b>78</b> (2014), 1743                                                                                   |                                                                                         |
| Lukrahnite        | $\text{CaCuFe}^{3+}(\text{AsO}_4)_2(\text{OH})(\text{H}_2\text{O})$                                                                                         | A | 1999-030  | Namibia               | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (2001), 481                                                                          |                                                                                         |
| Lulzacite         | $\text{Sr}_2\text{Fe}^{2+}_3\text{Al}_4(\text{PO}_4)_4(\text{OH})_{10}$                                                                                     | A | 1998-039  | France                | <i>Comptes Rendus de l'Académie des Sciences, Sér. IIa</i> <b>330</b> (2000), 317                                                      | <i>Comptes Rendus de l'Académie des Sciences, Série IIc</i> <b>3</b> (2000), 301        |
| Lumsdenite        | $\text{NaCa}_3\text{Mg}_2(\text{H}_2\text{O})_{31}(\text{As}^{3+}\text{V}^{4+}_2\text{V}^{5+}_{10}\text{As}^{5+}_6\text{O}_{51})\cdot 14\text{H}_2\text{O}$ | A | 2018-092  | USA                   | <i>Canadian Mineralogist</i> <b>58</b> (2020), 137                                                                                     |                                                                                         |
| Lüneburgite       | $\text{Mg}_3[\text{B}_2(\text{OH})_6(\text{PO}_4)_2](\text{H}_2\text{O})_6$                                                                                 | G | 1870      | Germany               | <i>Sitzungsberichte der Königlich Bayerische Akademie der Wissenschaften zu München</i> <b>1</b> (1870), 291                           | <i>American Mineralogist</i> <b>76</b> (1991), 1400                                     |
| Lunijianlaite     | $\text{Li}_{0.7}\text{Al}_{6.2}(\text{Si}_7\text{Al})\text{O}_{20}(\text{OH},\text{O})_{10}$                                                                | A | 1989-056  | China                 | <i>Acta Mineralogica Sinica</i> <b>10</b> (1990), 289                                                                                  | <i>Acta Mineralogica Sinica</i> <b>12</b> (1992), 7                                     |
| Lun'okite         | $\text{MgMn}^{2+}\text{Al}(\text{PO}_4)_2(\text{OH})(\text{H}_2\text{O})_4$                                                                                 | A | 1982-058  | Russia                | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>112</b> (1983), 232                                                      |                                                                                         |
| Luobusaite        | $\text{Fe}_{0.84}\text{Si}_2$                                                                                                                               | A | 2005-052a | China                 | <i>Acta Geologica Sinica</i> <b>80</b> (2007), 1487                                                                                    | <i>Journal of Alloys and Compounds</i> <b>476</b> (2009), 282                           |
| Luogufengite      | $\text{Fe}_2\text{O}_3$                                                                                                                                     | A | 2016-005  | USA                   | <i>American Mineralogist</i> <b>102</b> (2017), 711                                                                                    |                                                                                         |
| Lusernaite-(Y)    | $\text{Y}_4\text{Al}(\text{CO}_3)_2(\text{OH},\text{F})_{11}(\text{H}_2\text{O})_4\cdot 2\text{H}_2\text{O}$                                                | A | 2011-108  | Italy                 | <i>American Mineralogist</i> <b>98</b> (2013), 1322                                                                                    |                                                                                         |
| Lussierite        | $\text{Na}_{10}[(\text{UO}_2)(\text{SO}_4)_4](\text{SO}_4)_2(\text{H}_2\text{O})_3$                                                                         | A | 2018-101  | USA                   | <i>Mineralogical Magazine</i> <b>83</b> (2019), 799                                                                                    |                                                                                         |
| Luxembourgite     | $\text{AgCuPbBi}_4\text{Se}_8$                                                                                                                              | A | 2018-154  | Luxembourg            | <i>European Journal of Mineralogy</i> <b>32</b> (2020), 449                                                                            |                                                                                         |
| Luzonite          | $\text{Cu}_3\text{AsS}_4$                                                                                                                                   | G | 1874      | Philippines           | <i>Mineralogische Mittheilungen</i> (1874), 257                                                                                        | <i>Zeitschrift für Kristallographie</i> <b>219</b> (2004), 20                           |
| Lyonsite          | $\text{Cu}^{2+}_3\text{Fe}^{3+}_4(\text{VO}_4)_6$                                                                                                           | A | 1986-041  | El Salvador           | <i>American Mineralogist</i> <b>72</b> (1987), 1000                                                                                    | <i>Doklady Earth Sciences</i> <b>448</b> (2013), 112                                    |
| Macaulayite       | $\text{Fe}^{3+}_{24}\text{Si}_4\text{O}_{43}(\text{OH})_2$                                                                                                  | A | 1981-062  | United Kingdom        | <i>Mineralogical Magazine</i> <b>48</b> (1984), 127                                                                                    |                                                                                         |
| Macdonaldite      | $\text{BaCa}_4\text{Si}_{16}\text{O}_{36}(\text{OH})_2(\text{H}_2\text{O})_6\cdot 4\text{H}_2\text{O}$                                                      | A | 1964-010  | USA                   | <i>American Mineralogist</i> <b>50</b> (1965), 314                                                                                     | <i>Atti della Accademia Nazionale dei Lincei, Ser. VIII</i> <b>45</b> (1968), 399       |
| Macedonite        | $\text{PbTiO}_3$                                                                                                                                            | A | 1970-010  | North Macedonia       | <i>American Mineralogist</i> <b>56</b> (1971), 387                                                                                     | <i>Acta Crystallographica</i> <b>B72</b> (2016), 381                                    |
| Macfallite        | $\text{Ca}_2\text{Mn}^{3+}_3(\text{SiO}_4)(\text{Si}_2\text{O}_7)(\text{OH})_3$                                                                             | A | 1974-057  | USA                   | <i>Mineralogical Magazine</i> <b>43</b> (1979), 325                                                                                    | <i>American Mineralogist</i> <b>93</b> (2008), 1851                                     |
| Machatschkiite    | $\text{Ca}_6(\text{AsO}_4)(\text{AsO}_3\text{OH})_3(\text{PO}_4)(\text{H}_2\text{O})_{12}\cdot 3\text{H}_2\text{O}$                                         | A | 1976-010  | Germany               | <i>Tschermaks Mineralogische und Petrographische Mitteilungen</i> <b>24</b> (1977), 125                                                | <i>Tschermaks Mineralogische und Petrographische Mitteilungen</i> <b>30</b> (1982), 145 |
| Machiite          | $\text{Al}_2\text{Ti}_3\text{O}_9$                                                                                                                          | A | 2016-067  | Australia (meteorite) | <i>American Mineralogist</i> <b>105</b> (2020), 239                                                                                    |                                                                                         |
| Macivorite        | $(\text{NH}_4)_3\text{Al}_5(\text{PO}_3\text{OH})_6(\text{PO}_4)_2(\text{H}_2\text{O})_{12}\cdot 6\text{H}_2\text{O}$                                       | A | 2024-083  | Australia             | CNMNC Newsletter 84 - <i>Mineralogical Magazine</i> <b>89</b> (2025), 298; <i>European Journal of Mineralogy</i> <b>37</b> (2025), 249 |                                                                                         |
| Mackayite         | $\text{Fe}^{3+}\text{Te}^{4+}_2\text{O}_5(\text{OH})$                                                                                                       | G | 1944      | USA                   | <i>American Mineralogist</i> <b>29</b> (1944), 211                                                                                     | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1977), 145                           |
| Mackinawite       | $\text{FeS}$                                                                                                                                                | A | 1967 s.p. | USA                   | <i>U.S. Geological Survey Professional Paper</i> <b>475-D</b> (1964), 64                                                               | <i>American Mineralogist</i> <b>109</b> (2024), 401                                     |
| Macphersonite     | $\text{Pb}_4(\text{SO}_4)(\text{CO}_3)_2(\text{OH})_2$                                                                                                      | A | 1982-105  | United Kingdom        | <i>Mineralogical Magazine</i> <b>48</b> (1984), 227                                                                                    | <i>Mineralogical Magazine</i> <b>62</b> (1998), 451                                     |
| Macquartite       | $\text{Cu}_2\text{Pb}_7(\text{CrO}_4)_4(\text{SiO}_4)_2(\text{OH})_2$                                                                                       | A | 1979-037  | USA                   | <i>Bulletin de Minéralogie</i> <b>103</b> (1980), 530                                                                                  |                                                                                         |
| Macraeite         | $[\text{K}(\text{H}_2\text{O})]\text{Mn}_2(\text{Fe}_2\text{Ti})(\text{PO}_4)_4[\text{O}(\text{OH})](\text{H}_2\text{O})_{10}\cdot 4\text{H}_2\text{O}$     | A | 2023-065  | Portugal              | <i>European Journal of Mineralogy</i> <b>36</b> (2024), 267                                                                            |                                                                                         |

|                           |                                                                                                                                      |    |           |                     |                                                                                                                                        |                                                                |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------|----|-----------|---------------------|----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|
| Madeiraite                | $\text{Na}_2\text{Ca}_2\text{Fe}_2\text{Zr}_2(\text{Si}_2\text{O}_7)_2\text{O}_2\text{F}_2$                                          | A  | 2021-077  | Portugal            | CNMNC Newsletter 64 - <i>Mineralogical Magazine</i> <b>86</b> (2022), 178; <i>European Journal of Mineralogy</i> <b>34</b> (2022), 1   |                                                                |
| Madocite                  | $\text{Pb}_{19}(\text{Sb},\text{As})_{16}\text{S}_{43}$                                                                              | A  | 1966-015  | Canada              | <i>Canadian Mineralogist</i> <b>9</b> (1967), 7                                                                                        | <i>Mineralogical Record</i> <b>13</b> (1982), 93               |
| Magadiite                 | $[\text{Na}_2(\text{H}_2\text{O})_8]\text{Si}_{14}\text{O}_{28}(\text{OH})_2$                                                        | A  | 1967-017  | Kenya               | <i>Science</i> <b>157</b> (1967), 1177                                                                                                 | <i>American Mineralogist</i> <b>107</b> (2022), 2101           |
| Magbasite                 | $\text{KBaFe}^{3+}\text{Mg}_7\text{Si}_8\text{O}_{22}(\text{OH})_2\text{F}_6$                                                        | A  | 1968 s.p. | China               | <i>Doklady Akademii Nauk SSSR</i> <b>163</b> (1965), 718                                                                               | <i>Mineralogical Magazine</i> <b>78</b> (2014), 29             |
| Magganasite               | $\text{CuFe}^{3+}_3\text{O}(\text{AsO}_4)_3$                                                                                         | A  | 2021-112  | Russia              | <i>Mineralogical Magazine</i> <b>90</b> (2026), 472                                                                                    |                                                                |
| Maghagendorfite           | $\text{Na}_2\text{MgFe}^{2+}\text{Fe}^{3+}(\text{PO}_4)_3$                                                                           | Q  | 2019 s.p. | USA                 | <i>Mineralogical Magazine</i> <b>43</b> (1979), 227                                                                                    |                                                                |
| Maghemite                 | $(\text{Fe}^{3+}_{0.67}\square_{0.33})\text{Fe}^{3+}_2\text{O}_4$                                                                    | Rd | 2018 s.p. | South Africa        | <i>Economic Geology</i> <b>22</b> (1927), 845                                                                                          | <i>American Mineralogist</i> <b>88</b> (2003), 846             |
| Maghrebite                | $\text{MgAl}_2(\text{AsO}_4)_2(\text{OH})_2(\text{H}_2\text{O})_6 \cdot 2\text{H}_2\text{O}$                                         | A  | 2005-044  | Morocco             | <i>Lapis</i> <b>31</b> (2006), 69                                                                                                      | <i>European Journal of Mineralogy</i> <b>24</b> (2012), 717    |
| Magnanelliite             | $\text{K}_3\text{Fe}^{3+}_2(\text{SO}_4)_4(\text{OH})(\text{H}_2\text{O})_2$                                                         | A  | 2019-006  | Italy               | <i>Minerals</i> <b>9</b> (2019), 779                                                                                                   |                                                                |
| Magnéliite                | $\text{Ti}^{3+}_2\text{Ti}^{4+}_2\text{O}_7$                                                                                         | A  | 2021-111  | Israel              | <i>Materials</i> <b>16</b> (2023), 7578                                                                                                |                                                                |
| Magnesioalterite          | $\text{Mg}_2\text{Fe}^{3+}_4(\text{SO}_4)_4(\text{C}_2\text{O}_4)_2(\text{OH})_4(\text{H}_2\text{O})_{12} \cdot 5\text{H}_2\text{O}$ | A  | 2020-050  | USA                 | <i>Canadian Journal of Mineralogy and Petrology</i> <b>62</b> (2024), 353                                                              |                                                                |
| Magnesio-arfvedsonite     | $\text{NaNa}_2(\text{Mg}_4\text{Fe}^{3+})\text{Si}_8\text{O}_{22}(\text{OH})_2$                                                      | A  | 2013-137  | Myanmar             | <i>Mineralogical Magazine</i> <b>79</b> (2015), 253                                                                                    |                                                                |
| Magnesioaubertite         | $\text{MgAl}(\text{SO}_4)_2\text{Cl} \cdot 14\text{H}_2\text{O}$                                                                     | A  | 1982-015  | Italy               | <i>Aufschluss</i> <b>39</b> (1988), 97                                                                                                 |                                                                |
| Magnesiobeltrandoite-2N3S | $(\text{Mg}_6\text{Al}_2)(\text{Al}_{18}\text{Fe}^{3+}_2)\text{O}_{38}(\text{OH})_2$                                                 | A  | 2016-073  | Italy               | <i>European Journal of Mineralogy</i> <b>30</b> (2018), 545                                                                            |                                                                |
| Magnesiobermanite         | $\text{MgMn}^{3+}_2(\text{PO}_4)_2(\text{OH})_2(\text{H}_2\text{O})_4$                                                               | A  | 2018-115  | Australia           | <i>Mineralogical Magazine</i> <b>86</b> (2022), 127                                                                                    |                                                                |
| Magnesiocanutite          | $\text{Na}\square\text{MnMg}_2[\text{AsO}_4]_2[\text{AsO}_2(\text{OH})_2]$                                                           | A  | 2016-057  | Chile               | <i>Mineralogical Magazine</i> <b>81</b> (2017), 1523                                                                                   |                                                                |
| Magnesiocarpholite        | $\text{MgAl}_2\text{Si}_2\text{O}_6(\text{OH})_4$                                                                                    | A  | 1978-027  | France              | <i>American Journal of Science</i> <b>283-A</b> (1983), 72                                                                             | <i>European Journal of Mineralogy</i> <b>13</b> (2001), 533    |
| Magnesiochangesite-(Ce)   | $(\text{Ca}_8\text{Ce})\square\text{Mg}(\text{PO}_4)_7$                                                                              | A  | 2025-102  | China (meteorite)   | CNMNC Newsletter 91 - <i>Mineralogical Magazine</i> <b>90</b> (2026), xxx; <i>European Journal of Mineralogy</i> <b>38</b> (2026), 347 |                                                                |
| Magnesiochangesite-(Y)    | $(\text{Ca}_8\text{Y})\square\text{Mg}(\text{PO}_4)_7$                                                                               | A  | 2025-090  | The Moon            | CNMNC Newsletter 90 - <i>Mineralogical Magazine</i> <b>90</b> (2026), xxx; <i>European Journal of Mineralogy</i> <b>38</b> (2026), 231 |                                                                |
| Magnesiochloritoid        | $\text{MgAl}_2\text{O}(\text{SiO}_4)(\text{OH})_2$                                                                                   | Rn | 1987 s.p. | Switzerland / Italy | <i>Schweizerische Mineralogische und Petrographische Mitteilungen</i> <b>43</b> (1963), 269                                            | <i>European Journal of Mineralogy</i> <b>4</b> (1992), 67      |
| Magnesiochlorophoenicite  | $\text{Mg}_3\text{Zn}_2(\text{OH})_6\text{As}[\text{O}_3(\text{OH})_3]$                                                              | Rd | 1981 s.p. | USA                 | <i>U.S. Geological Survey Professional Paper</i> <b>180</b> (1935), 124                                                                | <i>Canadian Mineralogist</i> <b>19</b> (1981), 333             |
| Magnesiochromite          | $\text{MgCr}_2\text{O}_4$                                                                                                            | G  | 1873      | Germany             | <i>Zeitschrift der Deutschen Geologischen Gesellschaft</i> <b>25</b> (1873), 394                                                       | <i>Canadian Mineralogist</i> <b>43</b> (2005), 1305            |
| Magnesiocopiapite         | $\text{MgFe}^{3+}_4(\text{SO}_4)_6(\text{OH})_2(\text{H}_2\text{O})_{14} \cdot 6\text{H}_2\text{O}$                                  | G  | 1938      | USA                 | <i>American Mineralogist</i> <b>23</b> (1938), 3                                                                                       | <i>Mineralogical Magazine</i> <b>71</b> (2007), 553            |
| Magnesiocoulsonite        | $\text{MgV}_2\text{O}_4$                                                                                                             | A  | 1994-034  | Russia              | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>124(4)</b> (1995), 91                                                  | <i>Journal of Solid State Chemistry</i> <b>215</b> (2014), 184 |
| Magnesiodumortierite      | $\text{MgAl}_6\text{BSi}_3\text{O}_{17}(\text{OH})$                                                                                  | Rd | 1992-050  | Italy               | <i>European Journal of Mineralogy</i> <b>7</b> (1995), 167                                                                             | <i>European Journal of Mineralogy</i> <b>7</b> (1995), 525     |
| Magnesio-dutrowite        | $\text{Na}(\text{Mg}_{2.5}\text{Ti}_{0.5})\text{Al}_6(\text{Si}_6\text{O}_{18})(\text{BO}_3)_3(\text{OH})_3\text{O}$                 | A  | 2023-015  | Poland              | CNMNC Newsletter 74 - <i>Mineralogical Magazine</i> <b>87</b> (2023), 783; <i>European Journal of Mineralogy</i> <b>35</b> (2023), 659 |                                                                |

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|---------------------------------------|-------------------------------------------------------------------------------------------------------------|----|-----------|-------------|----------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| Magnesio-ferri-fluoro-hornblende      | $\square\text{Ca}_2(\text{Mg}_4\text{Fe}^{3+})(\text{Si}_7\text{Al})\text{O}_{22}\text{F}_2$                | A  | 2014-091  | Italy       | <i>Mineralogical Magazine</i> <b>80</b> (2016), 269                                                                                    |                                                                                             |
| Magnesio-ferri-hornblende             | $\square\text{Ca}_2(\text{Mg}_4\text{Fe}^{3+})[(\text{Si}_7\text{Al})\text{O}_{22}](\text{OH})_2$           | A  | 2021-100  | China       | <i>American Mineralogist</i> <b>109</b> (2024), 1074                                                                                   |                                                                                             |
| Magnesioferrite                       | $\text{MgFe}^{3+}_2\text{O}_4$                                                                              | G  | 1859      | Italy       | <i>Annalen der Physik und Chemie</i> <b>107</b> (1859), 451                                                                            | <i>American Mineralogist</i> <b>90</b> (2005), 219                                          |
| Magnesiofluckite                      | $\text{CaMg}(\text{AsO}_3\text{OH})_2(\text{H}_2\text{O})_2$                                                | A  | 2017-103  | Chile       | <i>Mineralogical Magazine</i> <b>83</b> (2019), 655                                                                                    |                                                                                             |
| Magnesio-fluoro-arfvedsonite          | $\text{NaNa}_2(\text{Mg}_4\text{Fe}^{3+})\text{Si}_8\text{O}_{22}\text{F}_2$                                | Rd | 2012 s.p. | Russia      | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>129(6)</b> (2000), 28                                                  |                                                                                             |
| Magnesio-fluoro-hastingsite           | $\text{NaCa}_2(\text{Mg}_4\text{Fe}^{3+})(\text{Si}_6\text{Al}_2)\text{O}_{22}\text{F}_2$                   | Rd | 2012 s.p. | Romania     | <i>European Journal of Mineralogy</i> <b>18</b> (2006), 503                                                                            |                                                                                             |
| Magnesio-foitite                      | $\square(\text{Mg}_2\text{Al})\text{Al}_6(\text{Si}_6\text{O}_{18})(\text{BO}_3)_3(\text{OH})_3(\text{OH})$ | Rd | 1998-037  | Japan       | <i>Canadian Mineralogist</i> <b>37</b> (1999), 1439                                                                                    | <i>Physics and Chemistry of Minerals</i> <b>43</b> (2016), 83                               |
| Magnesio-hastingsite                  | $\text{NaCa}_2(\text{Mg}_4\text{Fe}^{3+})(\text{Si}_6\text{Al}_2)\text{O}_{22}(\text{OH})_2$                | Rd | 2012 s.p. | Canada      | <i>American Mineralogist</i> <b>13</b> (1928), 287                                                                                     | <i>Mineralogy and Petrology</i> <b>109</b> (2015), 741                                      |
| Magnesiohatertite                     | $\text{NaNaCa}(\text{MgFe}^{3+})(\text{AsO}_4)_3$                                                           | A  | 2016-078  | Russia      | CNMNC Newsletter 34 - <i>Mineralogical Magazine</i> <b>80</b> (2016), 1315                                                             | <a href="https://doi.org/10.1180/mgm.2026.10218">https://doi.org/10.1180/mgm.2026.10218</a> |
| Magnesiohögbomite-2N2S                | $(\text{Mg},\text{Fe},\text{Al},\text{Ti})_{22}(\text{O},\text{OH})_{32}$                                   | Rn | 2001 s.p. | Sweden      | <i>Bulletin of the Geological Institution of the University of Upsala</i> <b>15</b> (1916), 289                                        | <i>European Journal of Mineralogy</i> <b>14</b> (2002), 389                                 |
| Magnesiohögbomite-2N3S                | $(\text{Mg},\text{Fe},\text{Zn},\text{Ti})_4(\text{Al},\text{Fe})_{10}\text{O}_{19}(\text{OH})$             | Rn | 2001 s.p. | Tanzania    | <i>Mineralogical Magazine</i> <b>33</b> (1963), 563                                                                                    | <i>American Mineralogist</i> <b>87</b> (2002), 277                                          |
| Magnesiohögbomite-2N4S                | $(\text{Mg}_{8.43}\text{Fe}^{2+}_{1.57}\text{Al}_{22}\text{Ti}^{4+}_2\text{O}_{46}(\text{OH})_2]$           | A  | 2010-084  | Antarctica  | <i>American Mineralogist</i> <b>97</b> (2012), 268                                                                                     |                                                                                             |
| Magnesiohögbomite-6N12S               | $\text{Mg}_5\text{Al}_{11}\text{TiO}_{23}(\text{OH})$                                                       | A  | 2020-029  | Canada      | <i>Mineralogical Magazine</i> <b>85</b> (2021), 398                                                                                    |                                                                                             |
| Magnesiohögbomite-6N6S                | $(\text{Mg},\text{Al},\text{Fe})_3(\text{Al},\text{Ti})_8\text{O}_{15}(\text{OH})$                          | Rn | 2001 s.p. | Tanzania    | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1990), 401                                                                          | <i>American Mineralogist</i> <b>87</b> (2002), 277                                          |
| Magnesiohongruite-(Fe <sup>3+</sup> ) | $\text{Fe}^{3+}\text{Nb}(\text{Mg}_2\text{Fe}^{3+})\text{O}_7(\text{OH})$                                   | A  | 2025-049  | China       | CNMNC Newsletter 88 - <i>Mineralogical Magazine</i> <b>90</b> (2026), 192; <i>European Journal of Mineralogy</i> <b>37</b> (2025), 921 |                                                                                             |
| Magnesio-hornblende                   | $\square\text{Ca}_2(\text{Mg}_4\text{Al})(\text{Si}_7\text{Al})\text{O}_{22}(\text{OH})_2$                  | A  | 2017-059  | Namibia     | <i>Mineralogical Magazine</i> <b>82</b> (2018), 1253                                                                                   |                                                                                             |
| Magnesiohulsite                       | $\text{Mg}_2\text{Fe}^{3+}\text{O}_2(\text{BO}_3)$                                                          | A  | 1983-074  | China       | <i>Acta Mineralogica Sinica</i> <b>5</b> (1985), 97                                                                                    | <i>Acta Petrologica et Mineralogica</i> <b>10</b> (1991), 339                               |
| Magnesiokoritnigite                   | $\text{Mg}(\text{AsO}_3\text{OH})(\text{H}_2\text{O})$                                                      | A  | 2013-049  | Chile       | <i>Mineralogical Magazine</i> <b>77</b> (2013), 3081                                                                                   |                                                                                             |
| Magnesioleydetite                     | $\text{Mg}(\text{UO}_2)(\text{SO}_4)_2(\text{H}_2\text{O})_7 \cdot 4\text{H}_2\text{O}$                     | A  | 2017-063  | USA         | <i>Mineralogical Magazine</i> <b>83</b> (2019), 349                                                                                    |                                                                                             |
| Magnesio-lucchesiite                  | $\text{CaMg}_3\text{Al}_6(\text{Si}_6\text{O}_{18})(\text{BO}_3)_3(\text{OH})_3\text{O}$                    | A  | 2019-025  | Canada      | <i>American Mineralogist</i> <b>106</b> (2021), 862                                                                                    | <i>Mineralogical Magazine</i> <b>87</b> (2023), 60                                          |
| Magnesioneptunite                     | $\text{KNa}_2\text{LiMg}_2\text{Ti}_2\text{Si}_6\text{O}_{24}$                                              | A  | 2009-009  | Russia      | <i>Zapiski Rossiyskogo Mineralogicheskogo Obshchestva</i> <b>140(1)</b> (2011), 57                                                     | <i>Crystallography Reports</i> <b>57</b> (2012), 505                                        |
| Magnesionigerite-2N1S                 | $(\text{Mg},\text{Al},\text{Zn})_2(\text{Al},\text{Sn})_6\text{O}_{11}(\text{OH})$                          | Rn | 2001 s.p. | China       | <i>Earth Science, Journal of China University of Geosciences</i> <b>14</b> (1989), 413                                                 | <i>European Journal of Mineralogy</i> <b>14</b> (2002), 389                                 |
| Magnesionigerite-6N6S                 | $(\text{Mg},\text{Al},\text{Zn})_3(\text{Al},\text{Sn},\text{Fe})_8\text{O}_{15}(\text{OH})$                | Rn | 2001 s.p. | China       | <i>Earth Science, Journal of China University of Geosciences</i> <b>14</b> (1989), 413                                                 | <i>Mineralogy and Petrology</i> <b>107</b> (2013), 163                                      |
| Magnesiopascoite                      | $\text{Ca}_2\text{MgV}^{5+}_{10}\text{O}_{28}(\text{H}_2\text{O})_{16}$                                     | A  | 2007-025  | USA         | <i>Canadian Mineralogist</i> <b>46</b> (2008), 679                                                                                     |                                                                                             |
| Magnesioqingheite                     | $\text{Na}_2\text{Mg}(\text{MgAl})(\text{PO}_4)_3$                                                          | A  | 2022-136  | Switzerland | CNMNC Newsletter 74 - <i>Mineralogical Magazine</i> <b>87</b> (2023), 783; <i>European Journal of Mineralogy</i> <b>35</b> (2023), 659 |                                                                                             |

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| Magnesio-riebeckite     | $\square\text{Na}_2(\text{Mg}_3\text{Fe}^{3+}_2)\text{Si}_8\text{O}_{22}(\text{OH})_2$                               | Rd | 2012 s.p. | Japan              | <i>Journal of the Geological Society of Japan</i> <b>63</b> (1957), 698                                                                | <i>Mineralogical Magazine</i> <b>81</b> (2017), 1431                                        |
| Magnesiorowlandite-(Y)  | $\text{Y}_4\text{Mg}(\text{Si}_2\text{O}_7)_2\text{F}_2$                                                             | A  | 2012-010  | Japan              | <i>Journal of Mineralogical and Petrological Sciences</i> <b>109</b> (2014), 109                                                       |                                                                                             |
| Magnesiostaurolite      | $\text{Mg}(\text{Mg},\text{Li})_3(\text{Al},\text{Mg})_{18}\text{Si}_8\text{O}_{44}(\text{OH})_4$                    | A  | 1992-035  | Italy              | <i>European Journal of Mineralogy</i> <b>15</b> (2003), 167                                                                            | <i>European Journal of Mineralogy</i> <b>10</b> (1998), 453                                 |
| Magnesiotaaffeite-2N'2S | $\text{Mg}_3\text{BeAl}_8\text{O}_{16}$                                                                              | Rn | 2001 s.p. | Sri Lanka          | <i>Mineralogical Magazine</i> <b>29</b> (1951), 765                                                                                    | <i>Canadian Mineralogist</i> <b>50</b> (2012), 21                                           |
| Magnesiotaaffeite-6N'3S | $\text{Mg}_2\text{BeAl}_6\text{O}_{12}$                                                                              | Rn | 2001 s.p. | Australia          | <i>Mineralogical Magazine</i> <b>36</b> (1967), 305                                                                                    | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1983), 393                               |
| Magnesiovesuvianite     | $\text{Ca}_{19}\text{Mg}(\text{Al}_{11}\text{Mg})(\text{SiO}_4)_{10}(\text{Si}_2\text{O}_7)_4\text{O}(\text{OH})_9$  | A  | 2015-104  | North Macedonia    | <i>Journal of Geosciences</i> <b>62</b> (2017), 25                                                                                     |                                                                                             |
| Magnesiovoltaite        | $\text{K}_2\text{Mg}_5\text{Fe}^{3+}_3\text{Al}(\text{SO}_4)_{12}(\text{H}_2\text{O})_{18}$                          | A  | 2015-095  | Chile              | <i>European Journal of Mineralogy</i> <b>28</b> (2016), 1005                                                                           | <i>Symmetry</i> <b>15</b> (2023), 2126                                                      |
| Magnesiozippeite        | $\text{Mg}(\text{UO}_2)_2(\text{SO}_4)\text{O}_2(\text{H}_2\text{O})_{3.5}$                                          | Rd | 1971-007  | USA                | <i>Canadian Mineralogist</i> <b>14</b> (1976), 429                                                                                     | <i>Mineralogy and Petrology</i> <b>107</b> (2013), 211                                      |
| Magnesite               | $\text{Mg}(\text{CO}_3)$                                                                                             | A  | 1962 s.p. | Italy              | Mineralogische Tabellen, 2nd ed. Rottmann, Berlin (1808), 48                                                                           | <i>Physics and Chemistry of Minerals</i> <b>45</b> (2018), 423                              |
| Magnetite               | $\text{Fe}^{2+}\text{Fe}^{3+}_2\text{O}_4$                                                                           | G  | 1845      | unknown            | Handbuch der Bestimmenden Mineralogie. Braumüller and Seidel, Wien (1845), 546                                                         | <i>Physics and Chemistry of Minerals</i> <b>34</b> (2007), 627                              |
| Magnetoplumbite         | $\text{PbFe}^{3+}_{12}\text{O}_{19}$                                                                                 | Rd | 2020 s.p. | Sweden             | <i>Geologiska Föreningens i Stockholm Förhandlingar</i> <b>47</b> (1925), 283                                                          | <i>American Mineralogist</i> <b>74</b> (1989), 1186                                         |
| Magnioursilite          | $\text{Mg}_4(\text{UO}_2)_4(\text{Si}_2\text{O}_5)_5(\text{OH})_6 \cdot 20\text{H}_2\text{O}$                        | G  | 1957      | Tajikistan         | <i>Atomnaya Energiya Voprosy Geologii Urana, Supplement</i> <b>6</b> (1957), 61                                                        | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>106</b> (1977), 553           |
| Magnolite               | $\text{Hg}^{1+}_2(\text{Te}^{4+}\text{O}_3)$                                                                         | G  | 1878      | USA                | <i>American Philosophical Society</i> <b>17</b> (1878), 113                                                                            | <i>Canadian Mineralogist</i> <b>27</b> (1989), 133                                          |
| Magnussonite            | $\text{Mn}^{2+}_9(\text{As}^{3+}\text{O}_3)_6\text{Mn}^{1+}_x(\text{H}_2\text{O},\text{Cl}_x,\square)$               | Rd | 1984 s.p. | Sweden             | <i>Arkiv för Kemi, Mineralogi och Geologi</i> <b>2</b> (1957), 133                                                                     | <i>Crystals</i> <b>12</b> (2022), 1221                                                      |
| Magselite               | $[\text{Mg}(\text{H}_2\text{O})_6][\text{Se}^{4+}\text{O}_3]$                                                        | A  | 2024-084  | USA                | CNMNC Newsletter 84 - <i>Mineralogical Magazine</i> <b>89</b> (2025), 298; <i>European Journal of Mineralogy</i> <b>37</b> (2025), 249 | <a href="https://doi.org/10.1180/mgm.2026.10219">https://doi.org/10.1180/mgm.2026.10219</a> |
| Mahnertite              | $(\text{Na},\text{Ca},\text{K})\text{Cu}_3(\text{AsO}_4)_2\text{Cl}(\text{H}_2\text{O})_3 \cdot 2\text{H}_2\text{O}$ | A  | 1994-035  | France             | <i>Archives des Sciences de Genève</i> <b>49</b> (1996), 119                                                                           | <i>European Journal of Mineralogy</i> <b>16</b> (2004), 687                                 |
| Maikainite              | $\text{Cu}_{10}\text{Fe}_3\text{MoGe}_3\text{S}_{16}$                                                                | A  | 1992-038  | Kazakhstan         | <i>Transactions (Doklady) of the Russian Academy of Sciences, Earth Science Section</i> <b>393A</b> (2003), 1329                       |                                                                                             |
| Majakite                | $\text{PdNiAs}$                                                                                                      | A  | 1974-038  | Russia             | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>105</b> (1976), 698                                                      | <i>Materials Science Forum</i> <b>321-324</b> (2000), 700                                   |
| Majindeite              | $\text{Mg}_2\text{Mo}^{4+}_3\text{O}_8$                                                                              | A  | 2012-079  | Mexico (meteorite) | <i>American Mineralogist</i> <b>101</b> (2016), 1161                                                                                   |                                                                                             |
| Majorite                | $\text{Mg}_3(\text{MgSi})(\text{SiO}_4)_3$                                                                           | A  | 1969-018  | Australia          | <i>Science</i> <b>168</b> (1970), 832                                                                                                  | <i>American Mineralogist</i> <b>109</b> (2024), 1646                                        |
| Majzlanite              | $\text{K}_2\text{Na}(\text{ZnNa})\text{Ca}(\text{SO}_4)_4$                                                           | A  | 2018-016  | Russia             | <i>Mineralogical Magazine</i> <b>84</b> (2020), 153                                                                                    |                                                                                             |
| Makarochkinite          | $\text{Ca}_4[\text{Fe}^{2+}_8\text{Fe}^{3+}_2\text{Ti}_2]\text{O}_4[\text{Si}_8\text{Be}_2\text{Al}_2\text{O}_{36}]$ | A  | 2002-009a | Russia             | <i>American Mineralogist</i> <b>90</b> (2005), 1402                                                                                    | <i>Kristallografiya</i> <b>35</b> (1990), 1388                                              |
| Makatite                | $\text{Na}_2\text{Si}_4\text{O}_8(\text{OH})_2(\text{H}_2\text{O})_4$                                                | A  | 1969-003  | Kenya              | <i>American Mineralogist</i> <b>55</b> (1970), 358                                                                                     | <i>Zeitschrift für Kristallographie</i> <b>159</b> (1982), 203                              |
| Mäkinenite              | $\text{NiSe}$                                                                                                        | A  | 1967 s.p. | Finland            | <i>Comptes Rendus de la Société Géologique de Finlande</i> <b>36</b> (1964), 113                                                       |                                                                                             |

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| Makotoite          | $\text{Ag}_{12}(\text{Cu}_3\text{Au})\text{S}_8$                                                                                                                                                                      | A  | 2020-071  | China             | CNMNC Newsletter 59 - <i>Mineralogical Magazine</i> <b>85</b> (2021), 278; <i>European Journal of Mineralogy</i> <b>33</b> (2021), 139 |                                                                                                                        |
| Makovickyite       | $\text{Cu}_{1.12}\text{Ag}_{0.81}\text{Pb}_{0.27}\text{Bi}_{5.35}\text{S}_9$                                                                                                                                          | A  | 1986-027  | Austria / Romania | <i>Neues Jahrbuch für Mineralogie Abhandlungen</i> <b>168</b> (1994), 147                                                              | <i>Canadian Mineralogist</i> <b>46</b> (2008), 515                                                                     |
| Malachite          | $\text{Cu}_2(\text{CO}_3)(\text{OH})_2$                                                                                                                                                                               | G  | ?         | unknown           | Mineralogia, eller Mineralrikt. Lars Salvius, Stockholm (1747), 279                                                                    | <i>European Journal of Mineralogy</i> <b>30</b> (2018), 609                                                            |
| Malanite           | $\text{Cu}^+(\text{Ir}^{3+}\text{Pt}^{4+})\text{S}_4$                                                                                                                                                                 | Rd | 1995-003  | China             | <i>Acta Geologica Sinica</i> <b>70</b> (1996), 309                                                                                     |                                                                                                                        |
| Malayaite          | $\text{CaSnO}(\text{SiO}_4)$                                                                                                                                                                                          | A  | 1964-024  | Malaysia          | <i>Mineralogical Magazine</i> <b>35</b> (1965), 622                                                                                    | <i>Acta Crystallographica</i> <b>B76</b> (2020), 316                                                                   |
| Maldonite          | $\text{Au}_2\text{Bi}$                                                                                                                                                                                                | G  | 1869      | Australia         | <i>Neues Jahrbuch</i> <b>3</b> (1969), 287                                                                                             | <i>Zeitschrift für Kristallographie</i> <b>90</b> (1935), 322                                                          |
| Maleevite          | $\text{BaB}_2\text{Si}_2\text{O}_8$                                                                                                                                                                                   | A  | 2002-027  | Tajikistan        | <i>Canadian Mineralogist</i> <b>42</b> (2004), 107                                                                                     | <i>Journal of Physical Chemistry C</i> <b>124</b> (2020), 26048                                                        |
| Maletoyvayamite    | $\text{Au}_3\text{Se}_4\text{Te}_6$                                                                                                                                                                                   | A  | 2019-021  | Russia            | <i>Mineralogical Magazine</i> <b>84</b> (2020), 117                                                                                    |                                                                                                                        |
| Malhmoodite        | $\text{Fe}^{2+}\text{Zr}(\text{PO}_4)_2(\text{H}_2\text{O})_4$                                                                                                                                                        | Rn | 1992-001  | USA               | <i>American Mineralogist</i> <b>78</b> (1993), 437                                                                                     | <i>Canadian Mineralogist</i> <b>60</b> (2022), 485                                                                     |
| Malinkoite         | $\text{NaBSiO}_4$                                                                                                                                                                                                     | A  | 2000-009  | Russia            | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>129(6)</b> (2000), 35                                                  | <i>Canadian Mineralogist</i> <b>39</b> (2001), 159                                                                     |
| Malladrite         | $\text{Na}_2\text{SiF}_6$                                                                                                                                                                                             | G  | 1926      | Italy             | <i>Rendiconti dell'Accademia Nazionale dei Lincei, Serie VI</i> <b>4</b> (1926), 171                                                   | <i>Zeitschrift für anorganische und allgemeine Chemie</i> <b>643</b> (2017), 1739                                      |
| Mallardite         | $\text{Mn}(\text{SO}_4)(\text{H}_2\text{O})_6 \cdot \text{H}_2\text{O}$                                                                                                                                               | G  | 1879      | USA               | <i>Bulletin de la Société Française de Minéralogie</i> <b>2</b> (1879), 117                                                            | <i>Journal of the Japanese Association of Mineralogists Petrologists and Economic Geologists</i> <b>74</b> (1979), 406 |
| Mallestigitite     | $\text{Pb}_3\text{Sb}(\text{SO}_4)(\text{AsO}_4)(\text{OH})_6(\text{H}_2\text{O})_3$                                                                                                                                  | A  | 1996-043  | Austria           | <i>Mitteilungen der Österreichischen Mineralogischen Gesellschaft</i> <b>143</b> (1998), 225                                           | <i>Mineralogy and Petrology</i> <b>117</b> (2023), 761                                                                 |
| Malyshevite        | $\text{PdCuBiS}_3$                                                                                                                                                                                                    | A  | 2006-012  | Russia            | <i>New Data on Minerals</i> <b>41</b> (2006), 14                                                                                       |                                                                                                                        |
| Mambertiite        | $\text{BiMo}^{5+}_{2.8}\text{O}_8(\text{OH})$                                                                                                                                                                         | A  | 2013-098  | Italy             | <i>European Journal of Mineralogy</i> <b>27</b> (2015), 405                                                                            |                                                                                                                        |
| Mammothite         | $\text{Pb}_6\text{Cu}_4\text{AlSb}^{5+}_2\text{O}_2(\text{SO}_4)_2\text{Cl}_4(\text{OH})_{16}$                                                                                                                        | A  | 1983-076a | USA               | <i>Mineralogical Record</i> <b>16</b> (1985), 117                                                                                      | <i>Canadian Mineralogist</i> <b>52</b> (2014), 687                                                                     |
| Mampsisite         | $\text{Ca}_4\text{Al}_2(\text{OH})_{12}(\text{CO}_3) \cdot 5\text{H}_2\text{O}$                                                                                                                                       | A  | 2023-090  | Israel            | <i>American Mineralogist</i> <b>111</b> (2026), 826                                                                                    |                                                                                                                        |
| Manaevite-(Ce)     | $\text{Ca}_{11}(\text{Ce}, \text{H}_2\text{O}, \text{Ca})_8\text{Mg}(\text{Al}, \text{Fe})_4(\text{Mg}, \text{Ti}, \text{Fe}^{3+})_8[\text{Si}_2\text{O}_7]_4[(\text{SiO}_4)_8(\text{H}_4\text{O}_4)_2](\text{OH})_9$ | A  | 2018-046  | Russia            | <i>Physics and Chemistry of Minerals</i> <b>47</b> (2020), 18                                                                          |                                                                                                                        |
| Manaksite          | $\text{KNaMn}^{2+}\text{Si}_4\text{O}_{10}$                                                                                                                                                                           | A  | 1990-024  | Russia            | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>121(1)</b> (1992), 112                                                 | <i>Journal of Solid State Chemistry</i> <b>182</b> (2009), 253                                                         |
| Manandonite        | $\text{Li}_2\text{Al}_4(\text{Si}_2\text{AlB})\text{O}_{10}(\text{OH})_8$                                                                                                                                             | G  | 1912      | Madagascar        | <i>Bulletin de la Société Française de Minéralogie</i> <b>35</b> (1912), 223                                                           | <i>American Mineralogist</i> <b>80</b> (1995), 387                                                                     |
| Mandarinoite       | $\text{Fe}^{3+}_2(\text{SeO}_3)_3(\text{H}_2\text{O})_3 \cdot 3\text{H}_2\text{O}$                                                                                                                                    | A  | 1977-049  | Bolivia           | <i>Canadian Mineralogist</i> <b>16</b> (1978), 605                                                                                     | <i>Canadian Mineralogist</i> <b>22</b> (1984), 475                                                                     |
| Maneckite          | $(\text{Na}\square)\text{Ca}_2\text{Fe}^{2+}_2(\text{Fe}^{3+}\text{Mg})\text{Mn}_2(\text{PO}_4)_6(\text{H}_2\text{O})_2$                                                                                              | A  | 2015-056  | Poland            | <i>Mineralogical Magazine</i> <b>81</b> (2017), 723                                                                                    |                                                                                                                        |
| Manganarsite       | $\text{Mn}^{2+}_3\text{As}^{3+}_2\text{O}_4(\text{OH})_4$                                                                                                                                                             | A  | 1985-037  | Sweden            | <i>American Mineralogist</i> <b>71</b> (1986), 1517                                                                                    |                                                                                                                        |
| Manganbabingtonite | $\text{Ca}_2\text{Mn}^{2+}\text{Fe}^{3+}\text{Si}_5\text{O}_{14}(\text{OH})$                                                                                                                                          | A  | 1971 s.p. | Russia            | <i>Doklady Akademii Nauk SSSR</i> <b>169</b> (1966), 434                                                                               | <i>Mineralogy and Petrology</i> <b>108</b> (2014), 287                                                                 |
| Manganbelyankinite | $\text{Mn}^{2+}(\text{Ti}, \text{Nb})_5\text{O}_{12} \cdot 9\text{H}_2\text{O}$                                                                                                                                       | Q  | 1957      | Russia            | <i>Akademiya Nauk SSSR, Trudy Institut Mineralogii, Geokhimii i Kristallokhimii Redkikh Elementov</i> <b>1</b> (1957), 41              |                                                                                                                        |
| Manganberzeliite   | $(\text{NaCa}_2)\text{Mn}^{2+}_2(\text{AsO}_4)_3$                                                                                                                                                                     | G  | 1894      | Sweden            | <i>Zeitschrift für Kristallographie und Mineralogie</i> <b>23</b> (1894), 590                                                          | <i>Mineralogical Magazine</i> <b>76</b> (2012), 1081                                                                   |

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| Manganflurlite               | $\text{ZnMn}^{2+}_3\text{Fe}^{3+}(\text{PO}_4)_3(\text{OH})_2(\text{H}_2\text{O})_7 \cdot 2\text{H}_2\text{O}$                                                       | A  | 2017-076  | Germany     | <i>European Journal of Mineralogy</i> <b>31</b> (2019), 127                                                                            |                                                                                    |
| Mangangordonite              | $\text{Mn}^{2+}\text{Al}_2(\text{PO}_4)_2(\text{OH})_2(\text{H}_2\text{O})_6 \cdot 2\text{H}_2\text{O}$                                                              | A  | 1989-023  | USA         | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1991), 169                                                                          | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1988), 265                      |
| Manganhumite                 | $\text{Mn}^{2+}_7(\text{SiO}_4)_3(\text{OH})_2$                                                                                                                      | A  | 1969-021  | Sweden      | <i>Mineralogical Magazine</i> <b>42</b> (1978), 133                                                                                    | <i>American Mineralogist</i> <b>63</b> (1978), 874                                 |
| Manganiakasakaite-(La)       | $\text{CaLa}(\text{Mn}^{3+}\text{AlMn}^{2+})(\text{Si}_2\text{O}_7)(\text{SiO}_4)\text{O}(\text{OH})$                                                                | A  | 2017-028  | Italy       | <i>Minerals</i> <b>9</b> (2019), 353                                                                                                   |                                                                                    |
| Manganiandrosite-(Ce)        | $\text{MnCe}(\text{Mn}^{3+}\text{AlMn}^{2+})(\text{Si}_2\text{O}_7)(\text{SiO}_4)\text{O}(\text{OH})$                                                                | A  | 2002-049  | Italy       | <i>European Journal of Mineralogy</i> <b>18</b> (2006), 569                                                                            |                                                                                    |
| Manganiandrosite-(La)        | $\text{MnLa}(\text{Mn}^{3+}\text{AlMn}^{2+})(\text{Si}_2\text{O}_7)(\text{SiO}_4)\text{O}(\text{OH})$                                                                | Rn | 1994-048  | Greece      | <i>American Mineralogist</i> <b>81</b> (1996), 735                                                                                     |                                                                                    |
| Manganiceladonite            | $\text{KMgMn}^{3+}\text{Si}_4\text{O}_{10}(\text{OH})_2$                                                                                                             | A  | 2015-052  | Italy       | <i>Mineralogical Magazine</i> <b>81</b> (2017), 167                                                                                    |                                                                                    |
| Mangani-dellaventuraite      | $\text{NaNa}_2(\text{MgMn}^{3+}_2\text{Ti}^{4+}\text{Li})\text{Si}_8\text{O}_{22}\text{O}_2$                                                                         | Rd | 2012 s.p. | India       | <i>American Mineralogist</i> <b>90</b> (2005), 304                                                                                     |                                                                                    |
| Mangani-eckermannite         | $\text{NaNa}_2(\text{Mg}_4\text{Mn}^{3+})\text{Si}_8\text{O}_{22}(\text{OH})_2$                                                                                      | A  | 2023-004  | Japan       | <i>Mineralogical Magazine</i> <b>87</b> (2023), 935                                                                                    |                                                                                    |
| Manganilvaite                | $\text{CaFe}^{2+}\text{Fe}^{3+}\text{Mn}^{2+}(\text{Si}_2\text{O}_7)\text{O}(\text{OH})$                                                                             | A  | 2002-016  | Bulgaria    | <i>Canadian Mineralogist</i> <b>43</b> (2005), 1027                                                                                    | <i>Zapiski Rossiyskogo Mineralogicheskogo Obshchestva</i> <b>154(1)</b> (2025), 86 |
| Mangani-obertiite            | $\text{NaNa}_2(\text{Mg}_3\text{Mn}^{3+}\text{Ti}^{4+})\text{Si}_8\text{O}_{22}\text{O}_2$                                                                           | Rd | 2012 s.p. | Germany     | <i>American Mineralogist</i> <b>85</b> (2000), 236                                                                                     | <i>American Mineralogist</i> <b>66</b> (1981), 154                                 |
| Mangani-pargasite            | $\text{NaCa}_2(\text{Mg}_4\text{Mn}^{3+})(\text{Si}_6\text{Al}_2)\text{O}_{22}(\text{OH})_2$                                                                         | A  | 2018-151  | Sweden      | <i>Periodico di Mineralogia</i> <b>89</b> (2020), 125                                                                                  |                                                                                    |
| Manganite                    | $\text{Mn}^{3+}\text{O}(\text{OH})$                                                                                                                                  | G  | 1826      | Germany     | <i>Edinburgh Journal of Science</i> <b>4</b> (1826), 41                                                                                | <i>Journal of Solid State Chemistry</i> <b>133</b> (1997), 486                     |
| Manganlotharmeyerite         | $\text{CaMn}^{3+}_2(\text{AsO}_4)_2(\text{OH})_2$                                                                                                                    | A  | 2001-026  | Switzerland | <i>Canadian Mineralogist</i> <b>40</b> (2002), 1597                                                                                    |                                                                                    |
| Manganoarrojadite-(KNa)      | $(\text{KNa})(\text{Na}_2)(\text{Mn}^{2+}\text{Na}_2\Box)\text{Fe}^{2+}_{13}\text{Al}(\text{PO}_4)_{11}(\text{PO}_3\text{OH})(\text{OH})_2$                          | A  | 2020-003  | USA         | <i>Mineralogical Magazine</i> <b>84</b> (2020), 932                                                                                    |                                                                                    |
| Manganobadalovite            | $\text{NaNaMn}(\text{MgFe}^{3+})(\text{AsO}_4)_3$                                                                                                                    | A  | 2020-035  | Russia      | <i>Minerals</i> <b>16</b> (2026), 142                                                                                                  |                                                                                    |
| Manganoblödite               | $\text{Na}_2\text{Mn}(\text{SO}_4)_2(\text{H}_2\text{O})_4$                                                                                                          | A  | 2012-029  | USA         | <i>Mineralogical Magazine</i> <b>77</b> (2013), 367                                                                                    |                                                                                    |
| Manganochromite              | $\text{Mn}^{2+}\text{Cr}_2\text{O}_4$                                                                                                                                | A  | 1975-020  | Australia   | <i>American Mineralogist</i> <b>63</b> (1978), 1166                                                                                    | <i>European Journal of Mineralogy</i> <b>9</b> (1997), 31                          |
| Mangano-eudialyte            | $\text{Na}_{14}\text{Ca}_6\text{Mn}_3\text{Zr}_3[\text{Si}_{26}\text{O}_{72}(\text{OH})_2](\text{H}_2\text{O}, \text{Cl}, \text{O}, \text{OH})_6$                    | A  | 2009-039  | Brazil      | <i>Zapiski Rossiyskogo Mineralogicheskogo Obshchestva</i> <b>139(4)</b> (2010), 35                                                     | <i>Minerals</i> <b>12</b> (2022), 949                                              |
| Mangano-ferri-eckermannite   | $\text{NaNa}_2(\text{Mn}^{2+}_4\text{Fe}^{3+})\text{Si}_8\text{O}_{22}(\text{OH})_2$                                                                                 | Rd | 2012 s.p. | Japan       | <i>Journal of the Japanese Association of Mineralogists, Petrologists and Economic Geologists</i> <b>62</b> (1969), 311                | <i>Acta Crystallographica</i> <b>E66</b> (2010), i83                               |
| Manganohatertite             | $\text{NaNaCa}(\text{MnFe}^{3+})(\text{AsO}_4)_3$                                                                                                                    | A  | 2023-098  | Russia      | CNMNC Newsletter 77 - <i>Mineralogical Magazine</i> <b>88</b> (2024), 203; <i>European Journal of Mineralogy</i> <b>36</b> (2024), 165 |                                                                                    |
| Manganohörnesite             | $\text{Mn}^{2+}_3(\text{AsO}_4)_2(\text{H}_2\text{O})_8$                                                                                                             | Rn | 2007 s.p. | Sweden      | <i>Arkiv för Mineralogi och Geologi</i> <b>1</b> (1951), 333                                                                           |                                                                                    |
| Manganokaskasite             | $(\text{Mo}, \text{Nb})\text{S}_2 \cdot (\text{Mn}_{1-x}\text{Al}_x)(\text{OH})_{2+x}$                                                                               | A  | 2013-026  | Russia      | <i>Mineralogical Magazine</i> <b>78</b> (2014), 663                                                                                    |                                                                                    |
| Manganokhomyakovite          | $\text{Na}_{12}\text{Sr}_3\text{Ca}_6\text{Mn}_3\text{Zr}_3\text{W}(\text{Si}_{25}\text{O}_{73})(\text{O}, \text{OH}, \text{H}_2\text{O})_3(\text{Cl}, \text{OH})_2$ | A  | 1998-043  | Canada      | <i>Canadian Mineralogist</i> <b>37</b> (1999), 893                                                                                     |                                                                                    |
| Manganokukisvumite           | $\text{Na}_6\text{MnTi}_4\text{Si}_8\text{O}_{28}(\text{H}_2\text{O})_4$                                                                                             | A  | 2002-029  | Canada      | <i>Canadian Mineralogist</i> <b>42</b> (2004), 781                                                                                     |                                                                                    |
| Manganolangbeinite           | $\text{K}_2\text{Mn}^{2+}_2(\text{SO}_4)_3$                                                                                                                          | G  | 1924      | Italy       | <i>Rendiconti dell a Regia Accademia delle Scienze Fisiche e Matematiche di Napoli</i> <b>30</b> (1924), 123                           | <i>Ferroelectrics</i> <b>229</b> (1999), 177                                       |
| Mangano-mangani-ungarettiite | $\text{NaNa}_2(\text{Mn}^{2+}_2\text{Mn}^{3+}_3)\text{Si}_8\text{O}_{22}\text{O}_2$                                                                                  | Rd | 2012 s.p. | Australia   | <i>American Mineralogist</i> <b>80</b> (1995), 165                                                                                     | <i>Mineralogical Magazine</i> <b>81</b> (2017), 707                                |

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|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----------|--------------|------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|
| Manganonaujakasite   | $\text{Na}_6\text{Mn}^{2+}\text{Al}_4\text{Si}_8\text{O}_{26}$                                                                                                            | A  | 1999-031  | Russia       | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>129(4)</b> (2000), 48                                  | <i>Microporous and Mesoporous Materials</i> <b>279</b> (2019), 128 |
| Manganoneptunite     | $\text{KNa}_2\text{LiMn}^{2+}_2\text{Ti}_2\text{Si}_8\text{O}_{24}$                                                                                                       | Rn | 2007 s.p. | Russia       | <i>Transactions of the Northern Scientific and Economic Expedition</i> <b>16</b> (1923), 16                            | <i>Geology of Ore Deposits</i> <b>49</b> (2007), 835               |
| Manganonewberyite    | $\text{Mn}(\text{PO}_3\text{OH})(\text{H}_2\text{O})_3$                                                                                                                   | A  | 2024-004  | Italy        | <i>Mineralogical Magazine</i> <b>89</b> (2025), 250                                                                    |                                                                    |
| Manganonordite-(Ce)  | $\text{Na}_3\text{SrCeMn}^{2+}\text{Si}_6\text{O}_{17}$                                                                                                                   | A  | 1997-007  | Russia       | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>127(1)</b> (1998), 32                                  | <i>Crystallography Reports</i> <b>44</b> (1999), 565               |
| Manganoquadratite    | $\text{AgMnAsS}_3$                                                                                                                                                        | A  | 2011-008  | Peru         | <i>American Mineralogist</i> <b>97</b> (2012), 1199                                                                    |                                                                    |
| Manganoschafarzikite | $\text{Mn}^{2+}\text{Sb}^{3+}_2\text{O}_4$                                                                                                                                | A  | 2022-129  | Sweden       | <i>European Journal of Mineralogy</i> <b>36</b> (2024), 311                                                            |                                                                    |
| Manganosegelerite    | $\text{Mn}^{2+}_2\text{Fe}^{3+}(\text{PO}_4)_2(\text{OH})(\text{H}_2\text{O})_4$                                                                                          | A  | 1984-055  | Russia       | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>121(2)</b> (1992), 95                                  |                                                                    |
| Manganosite          | $\text{MnO}$                                                                                                                                                              | G  | 1874      | Sweden       | <i>Geologiska Föreningens i Stockholm Förhandlingar</i> <b>2</b> (1874), 179                                           | <i>Journal of Solid State Chemistry</i> <b>58</b> (1985), 56       |
| Manganostibite       | $\text{Mn}^{2+}_7\text{Sb}^{5+}\text{As}^{5+}\text{O}_{12}$                                                                                                               | G  | 1884      | Sweden       | <i>Geologiska Föreningens i Stockholm Förhandlingar</i> <b>7</b> (1884), 210                                           | <i>American Mineralogist</i> <b>55</b> (1970), 1489                |
| Manganotychite       | $\text{Na}_6\text{Mn}^{2+}_2(\text{CO}_3)_4(\text{SO}_4)$                                                                                                                 | A  | 1989-039  | Russia       | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>119(5)</b> (1990), 46                                  | <i>Crystals</i> <b>13</b> (2023), 800                              |
| Manganrockbridgeite  | $\text{Mn}^{2+}_2\text{Fe}^{3+}_3(\text{PO}_4)_3(\text{OH})_4(\text{H}_2\text{O})$                                                                                        | A  | 2022-122  | Germany      | <i>European Journal of Mineralogy</i> <b>35</b> (2023), 295                                                            | <i>Journal of Geosciences</i> <b>69</b> (2024), 87                 |
| Manganvesuvianite    | $\text{Ca}_{19}\text{Mn}^{3+}(\text{Al}_{10}\text{Mg}_2)(\text{SiO}_4)_{10}(\text{Si}_2\text{O}_7)_4\text{O}(\text{OH})_9$                                                | A  | 2000-040  | South Africa | <i>Mineralogical Magazine</i> <b>66</b> (2002), 137                                                                    |                                                                    |
| Mangazeite           | $\text{Al}_2(\text{SO}_4)(\text{OH})_4 \cdot 3\text{H}_2\text{O}$                                                                                                         | A  | 2005-021a | Russia       | <i>Zapiski Rossiyskogo Mineralogicheskogo Obshchestva</i> <b>135(4)</b> (2006), 20                                     |                                                                    |
| Manitobaite          | $\text{Na}_{16}\text{Mn}_{25}\text{Al}_8(\text{PO}_4)_{30}$                                                                                                               | A  | 2008-064  | Canada       | <i>Canadian Mineralogist</i> <b>48</b> (2010), 1455                                                                    | <i>Canadian Mineralogist</i> <b>49</b> (2011), 1221                |
| Manjiroite           | $\text{Na}(\text{Mn}^{4+}_7\text{Mn}^{3+})\text{O}_{16}$                                                                                                                  | A  | 1966-009  | Japan        | <i>Journal of the Japanese Association of Mineralogists, Petrologists and Economic Geologists</i> <b>58</b> (1967), 39 | <i>American Mineralogist</i> <b>107</b> (2022), 564                |
| Mannardite           | $\text{Ba}(\text{Ti}_6\text{V}^{3+}_2)\text{O}_{16}$                                                                                                                      | A  | 1983-013  | Canada       | <i>Canadian Mineralogist</i> <b>24</b> (1986), 55                                                                      | <i>American Mineralogist</i> <b>109</b> (2024), 359                |
| Mansfieldite         | $\text{Al}(\text{AsO}_4)(\text{H}_2\text{O})_2$                                                                                                                           | G  | 1948      | USA          | <i>American Mineralogist</i> <b>33</b> (1948), 122                                                                     | <i>Acta Crystallographica</i> <b>E65</b> (2009), i6                |
| Mantienneite         | $(\text{H}_2\text{O})_2\text{Mg}_2(\text{Al}_2\text{Ti})(\text{PO}_4)_4(\text{OH})_2(\text{H}_2\text{O})_{10} \cdot 4\text{H}_2\text{O}$                                  | A  | 1983-048  | Cameroon     | <i>Bulletin de Minéralogie</i> <b>107</b> (1984), 737                                                                  |                                                                    |
| Manuelarossiite      | $\text{PbCaAlF}_7$                                                                                                                                                        | A  | 2022-097  | Italy        | <i>Mineralogical Magazine</i> <b>89</b> (2025), 133                                                                    |                                                                    |
| Maohokite            | $\text{MgFe}_2\text{O}_4$                                                                                                                                                 | A  | 2017-047  | China        | <i>Meteoritics and Planetary Science</i> <b>54</b> (2019), 495                                                         |                                                                    |
| Maoniupingite-(Ce)   | $(\text{Ce}, \text{Ca})_4(\text{Fe}^{3+}, \text{Ti}, \text{Fe}^{2+}, \square)(\text{Ti}, \text{Fe}^{3+}, \text{Fe}^{2+}, \text{Nb})_4(\text{Si}_2\text{O}_7)_2\text{O}_8$ | A  | 2003-017  | China        | <i>Chenji Yu Tetisi Dizhi</i> <b>25</b> (2005), 210                                                                    | <i>European Journal of Mineralogy</i> <b>14</b> (2002), 969        |
| Mapimite             | $\text{Zn}_2\text{Fe}^{3+}_3(\text{AsO}_4)_3(\text{OH})_4(\text{H}_2\text{O})_4 \cdot 6\text{H}_2\text{O}$                                                                | A  | 1978-070  | Mexico       | <i>Bulletin de Minéralogie</i> <b>104</b> (1981), 582                                                                  | <i>Acta Crystallographica</i> <b>B37</b> (1981), 1040              |
| Mapiquiroite         | $(\text{Sr}, \text{Pb})(\text{U}, \text{Y})\text{Fe}_2(\text{Ti}, \text{Fe}^{3+})_{18}\text{O}_{38}$                                                                      | A  | 2013-010  | Italy        | <i>European Journal of Mineralogy</i> <b>26</b> (2014), 427                                                            |                                                                    |
| Marathonite          | $\text{Pd}_{25}\text{Ge}_9$                                                                                                                                               | A  | 2016-080  | Canada       | <i>Canadian Mineralogist</i> <b>59</b> (2021), 1865                                                                    |                                                                    |
| Marcasite            | $\text{FeS}_2$                                                                                                                                                            | G  | 1845      | unknown      | <i>Handbuch der Bestimmenden Mineralogie</i> . Braumüller and Seidel, Wien (1845), 559                                 | <i>Physics and Chemistry of Minerals</i> <b>7</b> (1981), 177      |

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| Marchettiite      | $(\text{NH}_4)\text{C}_5\text{H}_3\text{N}_4\text{O}_3$                                                                | A | 2017-066  | Italy                                  | <i>Mineralogical Magazine</i> <b>86</b> (2022), 966                                                        |                                                                                             |
| Marcobaldiite     | $\text{Pb}_{12}(\text{Sb}_3\text{As}_2\text{Bi})\text{S}_{21}$                                                         | A | 2015-109  | Italy                                  | <i>European Journal of Mineralogy</i> <b>30</b> (2018), 581                                                |                                                                                             |
| Marécottite       | $[\text{Mg}(\text{H}_2\text{O})_6]_3[(\text{UO}_2)_4\text{O}_3(\text{OH})(\text{SO}_4)_2]_2 \cdot 8\text{H}_2\text{O}$ | A | 2001-056  | Switzerland                            | <i>American Mineralogist</i> <b>88</b> (2003), 676                                                         | <i>Mineralogical Magazine</i> <b>79</b> (2015), 649                                         |
| Margaritasite     | $\text{Cs}_2(\text{UO}_2)_2(\text{VO}_4)_2 \cdot \text{H}_2\text{O}$                                                   | A | 1980-093  | Mexico                                 | <i>American Mineralogist</i> <b>67</b> (1982), 1273                                                        |                                                                                             |
| Margarite         | $\text{CaAl}_2\text{Si}_2\text{Al}_2\text{O}_{10}(\text{OH})_2$                                                        | A | 1998 s.p. | Austria                                | Versuch einer Oryctographie der<br>Gefürsteten Grafschaft Tirols. Wagner,<br>Innsbruck (1821), 32          | <i>Mineralogical Magazine</i> <b>78</b> (2014), 55                                          |
| Margarosanite     | $\text{PbCa}_2\text{Si}_3\text{O}_9$                                                                                   | G | 1916      | USA                                    | <i>American Journal of Science</i> <b>42</b> (1916),<br>159                                                | <i>Journal of Mineralogy and Geochemistry</i><br><b>193</b> (2016), 205                     |
| Mariakrite        | $[\text{Ca}_4\text{Al}_2(\text{OH})_{12}(\text{H}_2\text{O})_4][\text{Fe}_2\text{S}_4]$                                | A | 2021-097  | Israel                                 | <i>American Mineralogist</i> <b>110</b> (2025), 1488                                                       |                                                                                             |
| Marialite         | $\text{Na}_4\text{Al}_3\text{Si}_9\text{O}_{24}\text{Cl}$                                                              | G | 1866      | Italy                                  | <i>Zeitschrift der Deutschen Geologischen<br/>Gesellschaft</i> <b>18</b> (1866), 634                       | <i>Canadian Mineralogist</i> <b>46</b> (2008), 1527                                         |
| Maričite          | $\text{NaFe}^{2+}(\text{PO}_4)$                                                                                        | A | 1976-024  | Canada                                 | <i>Canadian Mineralogist</i> <b>15</b> (1977), 396                                                         | <i>Canadian Mineralogist</i> <b>15</b> (1977), 518                                          |
| Maricopaite       | $\text{Ca}_2\text{Pb}_7(\text{Si}_{36}\text{Al}_{12})\text{O}_{99} \cdot n(\text{H}_2\text{O}, \text{OH})$             | A | 1985-036  | USA                                    | <i>Canadian Mineralogist</i> <b>26</b> (1988), 309                                                         | <i>American Mineralogist</i> <b>79</b> (1994), 175                                          |
| Mariinskite       | $\text{BeCr}_2\text{O}_4$                                                                                              | A | 2011-057  | Russia                                 | <i>Zapiski Rossiyskogo<br/>Mineralogicheskogo Obshchestva</i><br><b>141(6)</b> (2012), 43                  | <i>Crystallography Reports</i> <b>59</b> (2014), 30                                         |
| Marinaite         | $\text{Cu}_2\text{Fe}^{3+}\text{O}_2(\text{BO}_3)$                                                                     | A | 2016-021  | Russia                                 | CNMNC Newsletter 32 - <i>Mineralogical<br/>Magazine</i> <b>80</b> (2016), 915                              | <a href="https://doi.org/10.1180/mgm.2025.10179">https://doi.org/10.1180/mgm.2025.10179</a> |
| Marinellite       | $\text{Na}_{42}\text{Ca}_6\text{Al}_{36}\text{Si}_{36}\text{O}_{144}(\text{SO}_4)_8\text{Cl}_2(\text{H}_2\text{O})_6$  | A | 2002-021  | Italy                                  | <i>European Journal of Mineralogy</i> <b>15</b><br>(2003), 1019                                            |                                                                                             |
| Marioantofilliite | $[\text{Cu}_4\text{Al}_2(\text{OH})_{12}](\text{CO}_3)(\text{H}_2\text{O})_3$                                          | A | 2025-012  | Italy                                  | <i>European Journal of Mineralogy</i> <b>37</b><br>(2025), 733                                             |                                                                                             |
| Markascherite     | $\text{Cu}_3(\text{MoO}_4)(\text{OH})_4$                                                                               | A | 2010-051  | USA                                    | <i>American Mineralogist</i> <b>97</b> (2012), 197                                                         |                                                                                             |
| Markcooperite     | $\text{Pb}_2(\text{UO}_2)\text{TeO}_6$                                                                                 | A | 2009-045  | USA                                    | <i>American Mineralogist</i> <b>95</b> (2010), 1554                                                        | <i>Journal of Solid State Chemistry</i> <b>184</b><br>(2011), 401                           |
| Markeyite         | $\text{Ca}_9(\text{UO}_2)_4(\text{CO}_3)_{13} \cdot 28\text{H}_2\text{O}$                                              | A | 2016-090  | USA                                    | <i>Mineralogical Magazine</i> <b>82</b> (2018), 1089                                                       |                                                                                             |
| Markhininite      | $\text{TlBi}(\text{SO}_4)_2$                                                                                           | A | 2012-040  | Russia                                 | <i>Mineralogical Magazine</i> <b>78</b> (2014), 1687                                                       |                                                                                             |
| Marklite          | $\text{Cu}_5(\text{CO}_3)_2(\text{OH})_6 \cdot 6\text{H}_2\text{O}$                                                    | A | 2015-101  | Germany                                | CNMNC Newsletter 29 - <i>Mineralogical<br/>Magazine</i> <b>80</b> (2016), 199                              |                                                                                             |
| Markwelchite      | $\text{TiPbSbS}_3$                                                                                                     | A | 2024-001  | France                                 | <i>Mineralogical Magazine</i> <b>88</b> (2024), 503                                                        |                                                                                             |
| Marokite          | $\text{CaMn}^{3+}_2\text{O}_4$                                                                                         | A | 1963-005  | Morocco                                | <i>Bulletin de la Société Française de<br/>Minéralogie et de Cristallographie</i> <b>86</b><br>(1963), 359 | <i>Journal of Alloys and Compounds</i> <b>353</b><br>(2003), 5                              |
| Marrite           | $\text{AgPbAsS}_3$                                                                                                     | G | 1905      | Switzerland                            | <i>Mineralogical Magazine</i> <b>14</b> (1905), 72                                                         | <i>Neues Jahrbuch für Mineralogie<br/>Abhandlungen</i> <b>78</b> (2003), 75                 |
| Marrucciite       | $\text{Hg}_3\text{Pb}_{16}\text{Sb}_{18}\text{S}_{46}$                                                                 | A | 2006-015  | Italy                                  | <i>European Journal of Mineralogy</i> <b>19</b><br>(2007), 267                                             | <i>Acta Crystallographica</i> <b>E63</b> (2007), i190                                       |
| Marsaalamite-(Y)  | $\text{Y}(\text{MoO}_4)(\text{OH})$                                                                                    | A | 2024-050  | Egypt                                  | <i>Mineralogical Magazine</i> <b>89</b> (2025), 443                                                        |                                                                                             |
| Marshite          | $\text{CuI}$                                                                                                           | G | 1892      | Australia                              | <i>Proceedings of the Royal Society of<br/>New South Wales</i> <b>26</b> (1892), 328                       | <i>Canadian Mineralogist</i> <b>35</b> (1997), 785                                          |
| Marsturite        | $\text{NaCaMn}^{2+}_3\text{Si}_5\text{O}_{14}(\text{OH})$                                                              | A | 1977-047  | USA                                    | <i>American Mineralogist</i> <b>63</b> (1978), 1187                                                        | <i>American Mineralogist</i> <b>99</b> (2014), 1462                                         |
| Marthozite        | $\text{Cu}^{2+}(\text{UO}_2)_3(\text{Se}^{4+}\text{O}_3)_2\text{O}_2(\text{H}_2\text{O})_4 \cdot 4\text{H}_2\text{O}$  | A | 1968-016  | Democratic<br>Republic of the<br>Congo | <i>Bulletin de la Société Française de<br/>Minéralogie et de Cristallographie</i> <b>92</b><br>(1969), 278 | <i>Canadian Mineralogist</i> <b>39</b> (2001), 797                                          |

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| Martinandresite | $\text{Ba}_2(\text{Al}_4\text{Si}_{12}\text{O}_{32}) \cdot 10\text{H}_2\text{O}$                                                                                     | A  | 2017-038  | Switzerland                      | <i>Physics and Chemistry of Minerals</i> <b>45</b> (2018), 511                         |                                                                                    |
| Martinite       | $(\text{Na}, \square, \text{Ca})_{12}\text{Ca}_4(\text{Si}, \text{S}, \text{B})_{14}\text{B}_2\text{O}_{38}(\text{OH}, \text{Cl})_2\text{F}_2(\text{H}_2\text{O})_4$ | A  | 2001-059  | Canada                           | <i>Canadian Mineralogist</i> <b>45</b> (2007), 1281                                    |                                                                                    |
| Martyite        | $\text{Zn}_3(\text{V}_2\text{O}_7)(\text{OH})_2 \cdot 2\text{H}_2\text{O}$                                                                                           | A  | 2007-026  | USA                              | <i>Canadian Mineralogist</i> <b>46</b> (2008), 687                                     |                                                                                    |
| Marumoite       | $\text{Pb}_{32}\text{As}_{40}\text{S}_{92}$                                                                                                                          | A  | 1998-004  | Switzerland                      | nyp                                                                                    | <i>Mineral Deposit Research: Meeting the Global Challenge</i> <b>1</b> (2005), 695 |
| Maruyamaite     | $\text{K}(\text{MgAl}_2)(\text{Al}_5\text{Mg})(\text{Si}_6\text{O}_{18})(\text{BO}_3)_3(\text{OH})_3\text{O}$                                                        | A  | 2013-123  | Kazakhstan                       | <i>American Mineralogist</i> <b>101</b> (2016), 355                                    | <i>Mineralogy and Petrology</i> <b>113</b> (2019), 613                             |
| Masaitisite     | $\text{KCu}_5\text{O}_2(\text{SeO}_3)_2\text{Cl}_3$                                                                                                                  | A  | 2023-021  | Russia                           | <i>Zapiski Rossiyskogo Mineralogicheskogo Obshchestva</i> <b>154(6)</b> (2025), 27     |                                                                                    |
| Mascagnite      | $(\text{NH}_4)_2(\text{SO}_4)$                                                                                                                                       | G  | 1800      | Italy                            | Mineralogische Tabellen. Rottmann, Berlin (1800), 79 p.                                | <i>Physica Status Solidi</i> <b>A99</b> (1987), 131                                |
| Maslovite       | $\text{PtBiTe}$                                                                                                                                                      | A  | 1978-002  | Russia                           | <i>Geologiya Rudnykh Mestorozhdeniy</i> <b>21</b> (1979), 94                           | <i>American Mineralogist</i> <b>74</b> (1989), 1168                                |
| Massicot        | $\text{PbO}$                                                                                                                                                         | G  | 1841      | Germany                          | Nouveau Manuel Complet de Minéralogie. Roret, Paris (1841), 346                        | <i>Acta Crystallographica</i> <b>C41</b> (1985), 1281                              |
| Masutomilite    | $\text{KLiAlMn}^{2+}(\text{Si}_3\text{Al})\text{O}_{10}(\text{F}, \text{OH})_2$                                                                                      | A  | 1974-046  | Japan                            | <i>Mineralogical Journal</i> <b>8</b> (1976), 95                                       | <i>Mineralogical Journal</i> <b>13</b> (1986), 13                                  |
| Masuyite        | $\text{Pb}(\text{UO}_2)_3\text{O}_3(\text{OH})_2(\text{H}_2\text{O})_3$                                                                                              | G  | 1947      | Democratic Republic of the Congo | <i>Annales de la Société Géologique de Belgique</i> <b>70</b> (1947), B212             | <i>Canadian Mineralogist</i> <b>37</b> (1999), 1483                                |
| Mathesiusite    | $\text{K}_5(\text{UO}_2)_4(\text{SO}_4)_4(\text{VO}_5)(\text{H}_2\text{O})_4$                                                                                        | A  | 2013-046  | Czech Republic                   | <i>American Mineralogist</i> <b>99</b> (2014), 625                                     |                                                                                    |
| Mathewrogersite | $\text{Pb}_7\text{FeAl}_3\text{GeSi}_{12}\text{O}_{36}(\text{OH}, \text{H}_2\text{O})_6$                                                                             | A  | 1984-042  | Namibia                          | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1986), 203                          |                                                                                    |
| Mathiasite      | $(\text{K}, \text{Ba}, \text{Sr})(\text{Zr}, \text{Fe})(\text{Mg}, \text{Fe})_2(\text{Ti}, \text{Cr}, \text{Fe})_{18}\text{O}_{38}$                                  | A  | 1982-087  | South Africa                     | <i>American Mineralogist</i> <b>68</b> (1983), 494                                     | <i>Acta Crystallographica</i> <b>C39</b> (1983), 421                               |
| Matildite       | $\text{AgBiS}_2$                                                                                                                                                     | A  | 1982 s.p. | Peru                             | I Metalli, Loro Minerali e Miniere, Vol 1. Hoepli, Milano (1883), 136                  | <i>Mineralogical Magazine</i> <b>87</b> (2023), 292                                |
| Matlioliite     | $\text{NaMgAl}_5(\text{PO}_4)_4(\text{OH})_6(\text{H}_2\text{O})_2$                                                                                                  | A  | 2005-011  | Brazil                           | <i>American Mineralogist</i> <b>91</b> (2006), 1932                                    |                                                                                    |
| Matlockite      | $\text{PbClF}$                                                                                                                                                       | G  | 1851      | United Kingdom                   | <i>Philosophical Magazine, Series IV</i> <b>2</b> (1851), 120                          | <i>Mineralogical Magazine</i> <b>60</b> (1996), 833                                |
| Matsubaraite    | $\text{Sr}_4\text{Ti}_5(\text{Si}_2\text{O}_7)_2\text{O}_8$                                                                                                          | A  | 2000-027  | Japan                            | <i>European Journal of Mineralogy</i> <b>14</b> (2002), 1119                           |                                                                                    |
| Mattagamite     | $\text{CoTe}_2$                                                                                                                                                      | A  | 1972-003  | Canada                           | <i>Canadian Mineralogist</i> <b>12</b> (1973), 55                                      | <i>Acta Chemica Scandinavica</i> <b>24</b> (1970), 1925                            |
| Matteuccite     | $\text{NaH}(\text{SO}_4)(\text{H}_2\text{O})$                                                                                                                        | G  | 1952      | Italy                            | <i>Rendiconti dell'Accademia Nazionale dei Lincei, Serie VIII</i> <b>12</b> (1952), 23 | <i>Atti dell'Accademia delle Scienze di Torino</i> <b>109</b> (1975), 531          |
| Mattheddleite   | $\text{Pb}_5(\text{SiO}_4)_{1.5}(\text{SO}_4)_{1.5}\text{Cl}$                                                                                                        | A  | 1985-019  | United Kingdom                   | <i>Scottish Journal of Geology</i> <b>23</b> (1987), 1                                 | <i>Mineralogical Magazine</i> <b>70</b> (2006), 265                                |
| Matthiasweilite | $\text{PbTe}^{4+}\text{O}_3$                                                                                                                                         | A  | 2021-069  | USA                              | <i>Canadian Mineralogist</i> <b>60</b> (2022), 805                                     |                                                                                    |
| Matulaite       | $\text{Fe}^{3+}\text{Al}_7(\text{PO}_4)_4(\text{PO}_3\text{OH})_2(\text{OH})_8(\text{H}_2\text{O})_8 \cdot 8\text{H}_2\text{O}$                                      | Rd | 1977-013  | USA                              | <i>Aufschluss</i> <b>31</b> (1980), 55                                                 | <i>Mineralogical Magazine</i> <b>76</b> (2012), 517                                |
| Matyhte         | $\text{Ca}_9(\text{Ca}_{0.5}\square_{0.5})\text{Fe}^{2+}(\text{PO}_4)_7$                                                                                             | A  | 2015-121  | Argentina                        | <i>Mineralogical Magazine</i> <b>83</b> (2019), 293                                    |                                                                                    |
| Maucherite      | $\text{Ni}_{11}\text{As}_8$                                                                                                                                          | G  | 1913      | Germany                          | <i>Centralblatt für Mineralogie, Geologie und Paläontologie</i> (1913), 225            | <i>European Journal of Mineralogy</i> <b>21</b> (2009), 855                        |
| Mauriziodiniite | $(\text{NH}_4)(\text{As}_2\text{O}_3)_2\text{I}$                                                                                                                     | A  | 2019-036  | Chile                            | <i>Mineralogical Magazine</i> <b>84</b> (2020), 267                                    |                                                                                    |
| Maurogemmiite   | $\text{Ti}_{10}\text{Fe}_3\text{O}_3$                                                                                                                                | A  | 2022-098a | China                            | <i>Mineralogical Magazine</i> <b>89</b> (2025), 855                                    |                                                                                    |
| Mavlyanovite    | $\text{Mn}_5\text{Si}_3$                                                                                                                                             | A  | 2008-026  | Uzbekistan                       | <i>Mineralogical Magazine</i> <b>73</b> (2009), 43                                     |                                                                                    |
| Mawbyite        | $\text{PbFe}^{3+}_2(\text{AsO}_4)_2(\text{OH})_2$                                                                                                                    | A  | 1988-049  | Australia                        | <i>American Mineralogist</i> <b>74</b> (1989), 1377                                    | <i>Neues Jahrbuch für Mineralogie Abhandlungen</i> <b>196</b> (2019), 129          |

|                  |                                                                                                                                                                                                 |    |          |              |                                                                                                                                        |                                                                                   |
|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----------|--------------|----------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| Mawsonite        | $\text{Cu}_6\text{Fe}_2\text{SnS}_8$                                                                                                                                                            | A  | 1964-030 | Australia    | <i>American Mineralogist</i> <b>50</b> (1965), 900                                                                                     | <i>Canadian Mineralogist</i> <b>14</b> (1976), 529                                |
| Maxwellite       | $\text{NaFe}^{3+}(\text{AsO}_4)\text{F}$                                                                                                                                                        | A  | 1987-044 | USA          | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1991), 363                                                                          | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1995), 97                      |
| Mayingite        | $\text{IrBiTe}$                                                                                                                                                                                 | A  | 1993-016 | China        | <i>Acta Mineralogica Sinica</i> <b>15</b> (1995), 5                                                                                    |                                                                                   |
| Mazorite         | $\text{Ba}_3(\text{PO}_4)_2$                                                                                                                                                                    | A  | 2022-022 | Israel       | <i>Mineralogical Magazine</i> <b>87</b> (2023), 679                                                                                    |                                                                                   |
| Mazzettiite      | $\text{Ag}_3\text{HgPbSbTe}_5$                                                                                                                                                                  | A  | 2004-003 | USA          | <i>Canadian Mineralogist</i> <b>42</b> (2004), 1739                                                                                    |                                                                                   |
| Mazzite-Mg       | $\text{Mg}_5(\text{Si}_{26}\text{Al}_{10})\text{O}_{72} \cdot 30\text{H}_2\text{O}$                                                                                                             | A  | 1973-045 | France       | <i>Contributions to Mineralogy and Petrology</i> <b>45</b> (1974), 99                                                                  | <i>Bulletin de Minéralogie</i> <b>104</b> (1981), 5                               |
| Mazzite-Na       | $\text{Na}_8(\text{Si}_{28}\text{Al}_8)\text{O}_{72} \cdot 30\text{H}_2\text{O}$                                                                                                                | A  | 2003-058 | USA          | <i>American Mineralogist</i> <b>90</b> (2005), 1186                                                                                    | <i>Microporous and Mesoporous Materials</i> <b>63</b> (2003), 33                  |
| Mbobomkulite     | $\text{NiAl}_4(\text{NO}_3)_2(\text{OH})_{12}(\text{H}_2\text{O})_3$                                                                                                                            | A  | 1979-078 | South Africa | <i>Annals of the Geological Survey of South Africa</i> <b>14</b> (1980), 1                                                             |                                                                                   |
| Mcallisterite    | $\text{Mg}_2[\text{B}_6\text{O}_7(\text{OH})_6]_2 \cdot 9\text{H}_2\text{O}$                                                                                                                    | A  | 1963-012 | USA          | <i>American Mineralogist</i> <b>50</b> (1965), 629                                                                                     | <i>Atti dell'Accademia Nazionale dei Lincei, Rendiconti</i> <b>47</b> (1969), 352 |
| Mcalpineite      | $\text{Cu}_3\text{Te}^{6+}\text{O}_6$                                                                                                                                                           | A  | 1992-025 | USA          | <i>Mineralogical Magazine</i> <b>58</b> (1994), 417                                                                                    | <i>Acta Crystallographica</i> <b>B78</b> (2022), 20                               |
| Mcauslanite      | $\text{Fe}^{2+}_3\text{Al}_2(\text{PO}_4)_3(\text{PO}_3\text{OH})\text{F} \cdot 18\text{H}_2\text{O}$                                                                                           | A  | 1986-051 | Canada       | <i>Canadian Mineralogist</i> <b>26</b> (1988), 917                                                                                     |                                                                                   |
| Mcbirneyite      | $\text{Cu}_3(\text{VO}_4)_2$                                                                                                                                                                    | A  | 1985-007 | El Salvador  | <i>Journal of Volcanology and Geothermal Research</i> <b>33</b> (1987), 183                                                            | <i>Acta Crystallographica</i> <b>B38</b> (1982), 1546                             |
| Mcconnellite     | $\text{Cu}^{1+}\text{CrO}_2$                                                                                                                                                                    | A  | 1967-037 | Guyana       | <i>U.S. Geological Survey Professional Paper</i> <b>887</b> (1976), 1                                                                  | <i>Mineralogical Magazine</i> <b>85</b> (2021), 387                               |
| Mccrillsite      | $\text{NaCsBeZr}_2(\text{PO}_4)_4 \cdot 1-2\text{H}_2\text{O}$                                                                                                                                  | A  | 1991-023 | USA          | <i>Canadian Mineralogist</i> <b>32</b> (1994), 839                                                                                     |                                                                                   |
| Mcgillite        | $\text{Mn}^{2+}_8\text{Si}_6\text{O}_{15}(\text{OH})_8\text{Cl}_2$                                                                                                                              | A  | 1979-024 | Canada       | <i>Canadian Mineralogist</i> <b>18</b> (1980), 31                                                                                      | <i>Canadian Mineralogist</i> <b>22</b> (1984), 265                                |
| Mcgovernite      | $\text{Zn}_3(\text{Mn}^{2+}, \text{Mg}, \text{Fe}^{3+}, \text{Al})_{42}(\text{As}^{3+}\text{O}_3)_2(\text{As}^{5+}\text{O}_4)_4$<br>$[(\text{Si}, \text{As}^{5+})\text{O}_4]_8(\text{OH})_{42}$ | G  | 1927     | USA          | <i>American Mineralogist</i> <b>12</b> (1927), 373                                                                                     | <i>Mineralogical Magazine</i> <b>82</b> (2018), 1101                              |
| Mcguinnessite    | $\text{CuMg}(\text{CO}_3)(\text{OH})_2$                                                                                                                                                         | A  | 1977-027 | USA          | <i>Mineralogical Record</i> <b>12</b> (1981), 143                                                                                      | <i>Zeitschrift für Kristallographie, suppl.</i> <b>23</b> (2006), 505             |
| Mckelveyite-(Nd) | $\text{NaCaBa}_3\text{Nd}(\text{CO}_3)_6(\text{H}_2\text{O})_3$                                                                                                                                 | A  | 2023-017 | Russia       | CNMNC Newsletter 74 - <i>Mineralogical Magazine</i> <b>87</b> (2023), 783; <i>European Journal of Mineralogy</i> <b>35</b> (2023), 659 |                                                                                   |
| Mckelveyite-(Y)  | $\text{NaCaBa}_3\text{Y}(\text{CO}_3)_6(\text{H}_2\text{O})_3$                                                                                                                                  | Rd | 1964-025 | USA          | <i>American Mineralogist</i> <b>50</b> (1965), 593                                                                                     | <i>Canadian Mineralogist</i> <b>46</b> (2008), 195                                |
| Mckinstryite     | $\text{Ag}_5\text{Cu}_3\text{S}_4$                                                                                                                                                              | A  | 1966-012 | Canada       | <i>Economic Geology</i> <b>61</b> (1966), 1383                                                                                         | <i>Mineralogical Magazine</i> <b>74</b> (2010), 73                                |
| Mcnearite        | $\text{NaCa}_5(\text{AsO}_4)(\text{AsO}_3\text{OH})_4 \cdot 4\text{H}_2\text{O}$                                                                                                                | A  | 1980-017 | France       | <i>Schweizerische Mineralogische und Petrographische Mitteilungen</i> <b>61</b> (1981), 1                                              |                                                                                   |
| Medaite          | $\text{Mn}^{2+}_6\text{V}^{5+}\text{Si}_5\text{O}_{18}(\text{OH})$                                                                                                                              | A  | 1979-062 | Italy        | <i>American Mineralogist</i> <b>67</b> (1982), 85                                                                                      | <i>Mineralogical Magazine</i> <b>74</b> (2010), 55                                |
| Medenbachite     | $\text{Bi}_2\text{Fe}^{3+}\text{Cu}^{2+}(\text{AsO}_4)_2\text{O}(\text{OH})_3$                                                                                                                  | A  | 1993-048 | Germany      | <i>American Mineralogist</i> <b>81</b> (1996), 505                                                                                     |                                                                                   |
| Medvedevite      | $\text{KMn}^{2+}\text{V}_2\text{O}_6\text{Cl}(\text{H}_2\text{O})_2$                                                                                                                            | A  | 2021-082 | Russia       | <i>Mineralogical Magazine</i> <b>86</b> (2022), 478                                                                                    |                                                                                   |
| Meerschautite    | $(\text{Ag}, \text{Cu})_{5.5}\text{Pb}_{42.4}(\text{Sb}, \text{As})_{45.1}\text{S}_{112}\text{O}_{0.8}$                                                                                         | A  | 2013-061 | Italy        | <i>Mineralogical Magazine</i> <b>80</b> (2016), 675                                                                                    |                                                                                   |
| Megacyclite      | $\text{KNa}_8\text{Si}_9\text{O}_{18}(\text{OH})_9 \cdot 19\text{H}_2\text{O}$                                                                                                                  | A  | 1991-015 | Russia       | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>122(1)</b> (1993), 125                                                 | <i>New Data on Minerals</i> <b>42</b> (2007), 81                                  |
| Megakalsilite    | $\text{KAISiO}_4$                                                                                                                                                                               | A  | 2001-008 | Russia       | <i>Canadian Mineralogist</i> <b>40</b> (2002), 961                                                                                     | <i>Minerals</i> <b>11</b> (2021), 36                                              |
| Megawite         | $\text{CaSnO}_3$                                                                                                                                                                                | A  | 2009-090 | Russia       | <i>Mineralogical Magazine</i> <b>75</b> (2011), 2563                                                                                   | <i>Physics and Chemistry of Minerals</i> <b>36</b> (2009), 403                    |
| Meieranite       | $\text{Na}_2\text{Sr}_3\text{MgSi}_6\text{O}_{17}$                                                                                                                                              | A  | 2015-009 | South Africa | <i>Canadian Mineralogist</i> <b>57</b> (2019), 457                                                                                     |                                                                                   |
| Meierite         | $\text{Ba}_{44}\text{Si}_{66}\text{Al}_{30}\text{O}_{192}\text{Cl}_{25}(\text{OH})_{33}$                                                                                                        | A  | 2014-039 | Canada       | <i>Canadian Mineralogist</i> <b>54</b> (2016), 1249                                                                                    |                                                                                   |
| Meifuite         | $\text{KFe}_6(\text{Si}_7\text{Al})\text{O}_{19}(\text{OH})_4\text{Cl}_2$                                                                                                                       | A  | 2019-101 | China        | <i>Clays &amp; Clay Minerals</i> <b>69</b> (2021), 672                                                                                 |                                                                                   |

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|-------------------|------------------------------------------------------------------------------------------------------|----|-----------|---------------------|---------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| Meionite          | $\text{Ca}_4\text{Al}_6\text{Si}_6\text{O}_{24}(\text{CO}_3)$                                        | G  | 1801      | Italy               | Traité de Minéralogie, Vol. 2. Chez Louis, Paris (1801), 586                                                                          | <i>Powder Diffraction</i> <b>26</b> (2011), 78-91                                  |
| Meisserite        | $\text{Na}_5(\text{UO}_2)(\text{SO}_4)_3(\text{SO}_3\text{OH})(\text{H}_2\text{O})$                  | A  | 2013-039  | USA                 | <i>Mineralogical Magazine</i> <b>77</b> (2013), 2975                                                                                  |                                                                                    |
| Meitnerite        | $(\text{NH}_4)(\text{UO}_2)(\text{SO}_4)(\text{OH})\cdot 2\text{H}_2\text{O}$                        | A  | 2017-065  | USA                 | <i>European Journal of Mineralogy</i> <b>30</b> (2018), 999                                                                           |                                                                                    |
| Meixnerite        | $\text{Mg}_6\text{Al}_2(\text{OH})_{16}(\text{OH})_2\cdot 4\text{H}_2\text{O}$                       | A  | 1974-003  | Austria             | <i>Tschermaks Mineralogische und Petrographische Mitteilungen</i> <b>22</b> (1975), 79                                                | <i>Aufschluss</i> <b>49</b> (1998), 230                                            |
| Meizhouite        | $\text{Fe}^{2+}\text{V}^{3+}_2(\text{PO}_4)_2(\text{OH})_2$                                          | A  | 2024-036  | China               | CNMNC Newsletter 83 - <i>Mineralogical Magazine</i> <b>89</b> (2025), 185; <i>European Journal of Mineralogy</i> <b>37</b> (2025), 75 |                                                                                    |
| Mejillonesite     | $\text{NaMg}_2(\text{PO}_3\text{OH})(\text{PO}_4)(\text{OH})\cdot \text{H}_5\text{O}_2$              | A  | 2010-068  | Chile               | <i>American Mineralogist</i> <b>97</b> (2012), 19                                                                                     |                                                                                    |
| Melanarsite       | $\text{K}_3\text{Cu}_7\text{Fe}^{3+}_4(\text{AsO}_4)_4$                                              | A  | 2014-048  | Russia              | <i>Mineralogical Magazine</i> <b>80</b> (2016), 855                                                                                   |                                                                                    |
| Melanocerite-(Ce) | $\text{Ce}_5(\text{SiO}_4, \text{BO}_4)_3(\text{OH}, \text{O})$                                      | Q  | 1987 s.p. | Norway              | <i>Geologiska Föreningens i Stockholm Förhandlingar</i> <b>9</b> (1887), 247                                                          | <i>Trudy Mineralogicheskogo Muzeya, Akademiya Nauk SSSR</i> <b>21</b> (1972), 12   |
| Melanophlogite    | $\text{C}_2\text{H}_{17}\text{O}_5\cdot \text{Si}_{46}\text{O}_{92}$                                 | Rd | 1962 s.p. | Italy               | <i>Neues Jahrbuch für Mineralogie</i> (1876), 250                                                                                     | <i>Journal of Mineralogical and Petrological Sciences</i> <b>115</b> (2020), 471   |
| Melanostibite     | $\text{Mn}^{2+}_2\text{Fe}^{3+}\text{Sb}^{5+}\text{O}_6$                                             | A  | 1971 s.p. | Sweden              | <i>Zeitschrift für Krystallographie und Mineralogie</i> <b>21</b> (1893), 246                                                         | <i>Mineralogical Magazine</i> <b>86</b> (2022), 903                                |
| Melanotekite      | $\text{Pb}_2\text{Fe}^{3+}_2\text{O}_2(\text{Si}_2\text{O}_7)$                                       | G  | 1880      | Sweden              | <i>Öfversigt af Kongliga Vetenskaps-Akademiens Förhandlingar</i> <b>37(6)</b> (1880), 53                                              | <i>American Mineralogist</i> <b>93</b> (2008), 573                                 |
| Melanothallite    | $\text{Cu}_2\text{OCl}_2$                                                                            | G  | 1870      | Italy               | <i>Rendiconti della Regia Accademia delle Scienze Fisiche e Matematiche di Napoli</i> <b>9</b> (1870), 86                             | <i>Science Advances</i> <b>2</b> (2016), e1600353                                  |
| Melano vanadite   | $\text{Ca}(\text{V}^{5+}, \text{V}^{4+})_4\text{O}_{10}\cdot 5\text{H}_2\text{O}$                    | G  | 1921      | Peru                | <i>Proceedings of the National Academy of Sciences</i> <b>7</b> (1921), 249                                                           | <i>American Mineralogist</i> <b>72</b> (1987), 637                                 |
| Melansonite       | $\text{Na}\square_2\text{KZr}(\text{Si}_8\text{O}_{19})(\text{H}_2\text{O})_5$                       | A  | 2018-168  | Canada              | <i>Canadian Journal of Mineralogy and Petrology</i> <b>61</b> (2023), 387                                                             |                                                                                    |
| Melanterite       | $\text{Fe}(\text{SO}_4)(\text{H}_2\text{O})_6\cdot \text{H}_2\text{O}$                               | G  | 1850      | unknown             | Handbuch der Bestimmenden Mineralogie, 2nd ed. Braumüller and Seidel, Wien (1850), 489                                                | <i>Periodico di Mineralogia</i> <b>87</b> (2018), 89                               |
| Melcherite        | $\text{Ba}_2\text{Na}_2\text{Mg}[\text{Nb}_6\text{O}_{19}]\cdot 6\text{H}_2\text{O}$                 | A  | 2015-018  | Brazil              | <i>Mineralogical Magazine</i> <b>82</b> (2018), 111                                                                                   |                                                                                    |
| Meliphanite       | $\text{Ca}_4(\text{Na}, \text{Ca})_4\text{Be}_4\text{AlSi}_7\text{O}_{24}(\text{F}, \text{O})_4$     | G  | 1852      | Norway              | <i>Journal für Praktische Chemie</i> <b>55</b> (1852), 449                                                                            | <i>Zapiski Rossiyskogo Mineralogicheskogo Obshchestva</i> <b>147(2)</b> (2018), 79 |
| Melkovite         | $\text{CaFe}^{3+}_2\text{Mo}_5\text{O}_{10}(\text{PO}_4)_2(\text{OH})_{12}\cdot 8\text{H}_2\text{O}$ | A  | 1968-033  | Kazakhstan          | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>98</b> (1969), 207                                                      |                                                                                    |
| Melliniite        | $(\text{Ni}, \text{Fe})_4\text{P}$                                                                   | A  | 2005-027  | Morocco (meteorite) | <i>American Mineralogist</i> <b>91</b> (2006), 451                                                                                    |                                                                                    |
| Mellite           | $\text{Al}_2\text{C}_6(\text{COO})_6\cdot 16\text{H}_2\text{O}$                                      | G  | 1793      | Germany             | Systema Naturae per Regna Tria Naturae, Vol. 3. Georg Emanuel Beer, Lipsia (1793), 282                                                | <i>Journal of Solid State Chemistry</i> <b>92</b> (1991), 101                      |
| Mellizinkalite    | $\text{K}_3\text{Zn}_2\text{Cl}_7$                                                                   | A  | 2014-010  | Russia              | <i>European Journal of Mineralogy</i> <b>27</b> (2015), 247                                                                           |                                                                                    |
| Melonite          | $\text{NiTe}_2$                                                                                      | G  | 1868      | USA                 | <i>American Journal of Science</i> <b>45</b> (1868), 313                                                                              | <i>Journal of Solid State Chemistry</i> <b>121</b> (1996), 87                      |

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| Mélonjosephite     | $\text{CaFe}^{2+}\text{Fe}^{3+}(\text{PO}_4)_2(\text{OH})$                                                                                    | A | 1973-012 | Morocco        | <i>Bulletin de la Société Française de Minéralogie et de Cristallographie</i> <b>96</b> (1973), 135        | <i>American Mineralogist</i> <b>62</b> (1977), 60                                     |
| Menchettiite       | $\text{Pb}_5\text{Mn}_3\text{Ag}_2\text{Sb}_6\text{As}_4\text{S}_{24}$                                                                        | A | 2011-009 | Peru           | <i>American Mineralogist</i> <b>97</b> (2012), 440                                                         |                                                                                       |
| Mendelevite-(Ce)   | $\text{Cs}_6(\text{Ce}, \text{REE}, \text{Ca})_{30}(\text{Si}_{70}\text{O}_{175})(\text{OH}, \text{F}, \text{H}_2\text{O})_{35}$              | A | 2009-092 | Tajikistan     | <i>Doklady Earth Sciences</i> <b>452</b> (2013), 1023                                                      | <i>Mineralogical Magazine</i> <b>75</b> (2011), 2583                                  |
| Mendelevite-(Nd)   | $\text{Cs}_6(\text{Nd}, \text{REE}, \text{Ca})_{30}(\text{Si}_{70}\text{O}_{175})(\text{OH}, \text{F}, \text{H}_2\text{O})_{35}$              | A | 2015-031 | Tajikistan     | <i>Mineralogical Magazine</i> <b>81</b> (2017), 135                                                        |                                                                                       |
| Mendigite          | $\text{Mn}_2\text{Mn}_2\text{MnCa}(\text{Si}_3\text{O}_9)_2$                                                                                  | A | 2014-007 | Germany        | <i>Zapiski Rossiyskogo Mineralogicheskogo Obshchestva</i> <b>144(2)</b> (2015), 48                         | <i>Physics and Chemistry of Minerals</i> <b>46</b> (2019), 133                        |
| Mendipite          | $\text{Pb}_3\text{O}_2\text{Cl}_2$                                                                                                            | G | 1839     | United Kingdom | Grundriss der Mineralogie, mit Einschluss der Geognosie und Petrefactenkunde. Schrag, Nurnberg (1839), 604 | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (2000), 563                         |
| Mendozavilite-KCa  | $[\text{K}_2(\text{H}_2\text{O})_{15}\text{Ca}(\text{H}_2\text{O})_6][\text{Mo}_8\text{P}_2\text{Fe}^{3+}_3\text{O}_{34}(\text{OH})_3]$       | A | 2011-088 | Chile          | <i>Mineralogical Magazine</i> <b>76</b> (2012), 1175                                                       |                                                                                       |
| Mendozavilite-NaCu | $[\text{Na}_2(\text{H}_2\text{O})_{15}\text{Cu}(\text{H}_2\text{O})_6][\text{Mo}_8\text{P}_2\text{Fe}^{3+}_3\text{O}_{34}(\text{OH})_3]$      | A | 2011-039 | Chile          | <i>Mineralogical Magazine</i> <b>76</b> (2012), 1175                                                       |                                                                                       |
| Mendozavilite-NaFe | $[\text{Na}_2(\text{H}_2\text{O})_{15}\text{Fe}^{3+}(\text{H}_2\text{O})_6][\text{Mo}_8\text{P}_2\text{Fe}^{3+}_3\text{O}_{35}(\text{OH})_2]$ | A | 1982-009 | Mexico         | <i>Boletín de Mineralogía</i> <b>2(1)</b> (1986), 13                                                       | <i>Australian Journal of Mineralogy</i> <b>8</b> (2002), 11                           |
| Mendozite          | $\text{NaAl}(\text{SO}_4)_2 \cdot 11\text{H}_2\text{O}$                                                                                       | G | 1868     | Argentina      | A System of Mineralogy, 5th ed. Wiley, New York (1868), 653                                                | <i>American Mineralogist</i> <b>57</b> (1972), 1081                                   |
| Meneghinite        | $\text{Pb}_{13}\text{CuSb}_7\text{S}_{24}$                                                                                                    | G | 1852     | Italy          | <i>American Journal of Science and Arts</i> <b>14</b> (1852), 60                                           | <i>Acta Crystallographica</i> <b>B73</b> (2017), 369                                  |
| Menezesite         | $\text{Ba}_3\text{MgZr}_4\text{Nb}_{12}\text{O}_{42} \cdot 12\text{H}_2\text{O}$                                                              | A | 2005-023 | Brazil         | <i>American Mineralogist</i> <b>93</b> (2008), 81                                                          |                                                                                       |
| Mengeite           | $\text{Ba}(\text{Mg}, \text{Mn}^{2+})\text{Mn}^{3+}_4(\text{PO}_4)_4(\text{OH})_4 \cdot 4\text{H}_2\text{O}$                                  | A | 2018-035 | Australia      | <i>Canadian Mineralogist</i> <b>60</b> (2022), 815                                                         |                                                                                       |
| Mengxianminite     | $\text{Ca}_2\text{Sn}_2\text{Mg}_3\text{Al}_8[(\text{BO}_3)(\text{BeO}_4)\text{O}_6]_2$                                                       | A | 2015-070 | China          | <i>American Mineralogist</i> <b>102</b> (2017), 2136                                                       |                                                                                       |
| Meniaylovite       | $\text{Ca}_4\text{AlSi}(\text{SO}_4)\text{F}_{13}(\text{H}_2\text{O})_{12}$                                                                   | A | 2002-050 | Russia         | <i>Vulkanologiya i Seismologiya</i> <b>2</b> (2004), 3                                                     | <i>American Mineralogist</i> <b>66</b> (1981), 392                                    |
| Menshikovite       | $\text{Pd}_3\text{Ni}_2\text{As}_3$                                                                                                           | A | 1993-057 | Russia         | <i>Canadian Mineralogist</i> <b>40</b> (2002), 679                                                         |                                                                                       |
| Menzerite-(Y)      | $(\text{CaY}_2)\text{Mg}_2(\text{SiO}_4)_3$                                                                                                   | A | 2009-050 | Canada         | <i>Canadian Mineralogist</i> <b>48</b> (2010), 1171                                                        |                                                                                       |
| Mercallite         | $\text{KH}(\text{SO}_4)$                                                                                                                      | G | 1935     | Italy          | <i>Rendiconti dell'Accademia Nazionale dei Lincei</i> <b>21</b> (1935), 385                                | <i>Acta Crystallographica</i> <b>B32</b> (1976), 1875                                 |
| Mercury            | Hg                                                                                                                                            | G | ?        | unknown        | original paper?                                                                                            | <i>Physical Review B</i> <b>68</b> (2003), 094108                                     |
| Mereheadite        | $\text{Pb}_{47}\text{O}_{24}(\text{OH})_{13}\text{Cl}_{25}(\text{BO}_3)_2(\text{CO}_3)$                                                       | A | 1996-045 | United Kingdom | <i>Mineralogical Magazine</i> <b>62</b> (1998), 687                                                        | <i>Mineralogical Magazine</i> <b>73</b> (2009), 103                                   |
| Mereiterite        | $\text{K}_2\text{Fe}^{2+}(\text{SO}_4)_2(\text{H}_2\text{O})_4$                                                                               | A | 1993-045 | Greece         | <i>European Journal of Mineralogy</i> <b>7</b> (1995), 559                                                 | <i>American Mineralogist</i> <b>86</b> (2001), 1282                                   |
| Merelaniite        | $\text{Pb}_4\text{Mo}_4\text{VSbS}_{15}$                                                                                                      | A | 2016-042 | Tanzania       | <i>Minerals</i> <b>6</b> (2016), 115                                                                       | <i>Physical Review Materials</i> <b>6</b> (2022), 115202                              |
| Merenskyite        | $\text{PdTe}_2$                                                                                                                               | A | 1965-016 | South Africa   | <i>Mineralogical Magazine</i> <b>35</b> (1966), 815                                                        | Mineral Deposit Research: Meeting the Global Challenge. Springer, Berlin (2005), 1439 |
| Meridianiite       | $\text{Mg}(\text{SO}_4) \cdot 11\text{H}_2\text{O}$                                                                                           | A | 2007-011 | Canada         | <i>American Mineralogist</i> <b>92</b> (2007), 1756                                                        | <i>Acta Crystallographica</i> <b>C69</b> (2013), 324                                  |
| Merlinoite         | $\text{K}_5\text{Ca}_2(\text{Si}_{23}\text{Al}_9)\text{O}_{64} \cdot 24\text{H}_2\text{O}$                                                    | A | 1976-046 | Italy          | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1977), 355                                              | <i>European Journal of Mineralogy</i> <b>26</b> (2014), 371                           |
| Merrihueite        | $(\text{K}, \text{Na})_2(\text{Fe}^{2+}, \text{Mg})_5\text{Si}_{12}\text{O}_{30}$                                                             | A | 1965-020 | Romania        | <i>Science</i> <b>149</b> (1965), 972                                                                      | <i>Acta Crystallographica</i> <b>28</b> (1972), 267                                   |

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| Merrillite         | $\text{Ca}_9\text{NaMg}(\text{PO}_4)_7$                                                         | Rd | 1976 s.p. | Italy (meteorite) / India (meteorite) / Poland (meteorite) / USA (meteorite) | <i>American Mineralogist</i> <b>2</b> (1917), 119                                                                                     | <i>American Mineralogist</i> <b>107</b> (2022), 1652                                        |
| Mertieite          | $\text{Pd}_8\text{Sb}_{2.5}\text{As}_{0.5}$                                                     | Rn | 2022 s.p. | USA                                                                          | <i>American Mineralogist</i> <b>58</b> (1973), 1                                                                                      | <i>Mineralogical Magazine</i> <b>82</b> (2018), S247                                        |
| Merwinite          | $\text{Ca}_3\text{Mg}(\text{SiO}_4)_2$                                                          | G  | 1921      | USA                                                                          | <i>American Mineralogist</i> <b>6</b> (1921), 143                                                                                     | <i>American Mineralogist</i> <b>57</b> (1972), 1355                                         |
| Mesaite            | $\text{CaMn}^{2+}_5(\text{V}_2\text{O}_7)_3 \cdot 12\text{H}_2\text{O}$                         | A  | 2015-069  | USA                                                                          | <i>Mineralogical Magazine</i> <b>81</b> (2017), 319                                                                                   |                                                                                             |
| Mesolite           | $\text{Na}_2\text{Ca}_2(\text{Si}_9\text{Al}_6)\text{O}_{30} \cdot 8\text{H}_2\text{O}$         | A  | 1997 s.p. | Iceland ?                                                                    | <i>Journal für Chemie und Physik</i> <b>8</b> (1813), 353                                                                             | <i>American Mineralogist</i> <b>103</b> (2018), 175                                         |
| Messelite          | $\text{Ca}_2\text{Fe}^{2+}(\text{PO}_4)_2(\text{H}_2\text{O})_2$                                | A  | 1890      | Germany                                                                      | <i>Zeitschrift für Kristallographie und Mineralogie</i> <b>17</b> (1890), 93                                                          | <i>Zeitschrift für Kristallographie</i> <b>218</b> (2003), 553                              |
| Meta-aluminite     | $\text{Al}_2(\text{SO}_4)(\text{OH})_4 \cdot 5\text{H}_2\text{O}$                               | A  | 1967-013  | USA                                                                          | <i>American Mineralogist</i> <b>53</b> (1968), 717                                                                                    | <i>Zeitschrift für Kristallographie</i> <b>151</b> (1980), 141                              |
| Meta-alunogen      | $\text{Al}_2(\text{SO}_4)_3 \cdot 14\text{H}_2\text{O}$                                         | Q  | 1942      | Chile                                                                        | <i>Academy of Natural Science of Philadelphia, Notulae Naturae</i> <b>101</b> (1942)                                                  | <i>Physics and Chemistry of Minerals</i> <b>44</b> (2017), 95                               |
| Meta-ankoleite     | $\text{K}(\text{UO}_2)(\text{PO}_4) \cdot 3\text{H}_2\text{O}$                                  | A  | 1963-013  | Uganda                                                                       | <i>Bulletin of the Geological Survey of Great Britain</i> <b>25</b> (1966), 49                                                        |                                                                                             |
| Meta-autunite      | $\text{Ca}(\text{UO}_2)_2(\text{PO}_4)_2 \cdot 6\text{H}_2\text{O}$                             | G  | 1904      | USA                                                                          | <i>Bulletin de la Société Française de Minéralogie</i> <b>27</b> (1904), 222                                                          | <i>Neues Jahrbuch für Mineralogie Abhandlungen</i> <b>186</b> (2009), 333                   |
| Metaborite         | $\text{HBO}_2$                                                                                  | A  | 1967 s.p. | Kazakhstan                                                                   | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>93</b> (1964), 329                                                      | <i>Acta Crystallographica</i> <b>C56</b> (2000), 276                                        |
| Metacalcioranoite  | $(\text{Ca}, \text{Na}, \text{Ba})\text{U}_2\text{O}_7 \cdot 2\text{H}_2\text{O}$               | A  | 1971-054  | Russia                                                                       | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>102</b> (1973), 75                                                      |                                                                                             |
| Metacinnabar       | $\text{HgS}$                                                                                    | G  | 1870      | USA                                                                          | <i>Journal für Praktische Chemie</i> <b>110</b> (1870), 319                                                                           | <i>Atti della Società Toscana di Scienze Naturali, Mem., Ser. A</i> <b>124</b> (2017), 13   |
| Metadelrioite      | $\text{SrCa}(\text{VO}_3)_2(\text{OH})_2$                                                       | A  | 1967-006  | USA                                                                          | <i>American Mineralogist</i> <b>55</b> (1970), 185                                                                                    |                                                                                             |
| Metahaiweeite      | $\text{Ca}(\text{UO}_2)_2\text{Si}_6\text{O}_{15} \cdot n\text{H}_2\text{O}$                    | A  | 1962 s.p. | USA                                                                          | <i>American Mineralogist</i> <b>44</b> (1959), 839                                                                                    |                                                                                             |
| Metaheimitite      | $\text{PbCu}_2(\text{AsO}_4)(\text{OH})_3$                                                      | A  | 2023-020a | Switzerland                                                                  | CNMNC Newsletter 83 - <i>Mineralogical Magazine</i> <b>89</b> (2025), 185; <i>European Journal of Mineralogy</i> <b>37</b> (2025), 75 | <a href="https://doi.org/10.1180/mgm.2025.10157">https://doi.org/10.1180/mgm.2025.10157</a> |
| Metaheinrichite    | $\text{Ba}(\text{UO}_2)_2(\text{AsO}_4)_2 \cdot 8\text{H}_2\text{O}$                            | G  | 1958      | USA / Germany                                                                | <i>American Mineralogist</i> <b>43</b> (1958), 1134                                                                                   |                                                                                             |
| Metahewettite      | $\text{CaV}^{5+}_6\text{O}_{16} \cdot 3\text{H}_2\text{O}$                                      | G  | 1914      | USA                                                                          | <i>Proceedings of the American Philosophical Society</i> <b>53</b> (1914), 31                                                         | <i>Journal of Geosciences</i> <b>59</b> (2014), 159                                         |
| Metahohmannite     | $\text{Fe}^{3+}_2\text{O}(\text{SO}_4)_2 \cdot 4\text{H}_2\text{O}$                             | G  | 1938      | Chile                                                                        | <i>American Mineralogist</i> <b>23</b> (1938), 669                                                                                    | <i>American Mineralogist</i> <b>89</b> (2004), 265                                          |
| Metakahlerite      | $\text{Fe}^{2+}(\text{UO}_2)_2(\text{AsO}_4)_2(\text{H}_2\text{O})_5 \cdot 3\text{H}_2\text{O}$ | G  | 1958      | Germany                                                                      | <i>Jahreshefte des Geologischen Landesamtes in Baden-Württemberg</i> <b>3</b> (1958), 17                                              | <i>Canadian Mineralogist</i> <b>42</b> (2004), 1699                                         |
| Metakirchheimerite | $\text{Co}(\text{UO}_2)_2(\text{AsO}_4)_2(\text{H}_2\text{O})_5 \cdot 3\text{H}_2\text{O}$      | G  | 1958      | Germany                                                                      | <i>Jahreshefte des Geologischen Landesamtes in Baden-Württemberg</i> <b>3</b> (1958), 17                                              | <i>Canadian Mineralogist</i> <b>42</b> (2004), 1699                                         |
| Metaköttigite      | $(\text{Zn}, \text{Fe}^{3+})_3(\text{AsO}_4)_2 \cdot 8(\text{H}_2\text{O}, \text{OH})$          | A  | 1979-077  | Mexico                                                                       | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1982), 506                                                                         |                                                                                             |
| Metalodèveite      | $\text{Zn}(\text{UO}_2)_2(\text{AsO}_4)_2 \cdot 10\text{H}_2\text{O}$                           | A  | 1972-014  | France                                                                       | <i>Bulletin de la Société Française de Minéralogie et de Cristallographie</i> <b>95</b> (1972), 360                                   | <i>Canadian Mineralogist</i> <b>48</b> (2010), 113                                          |

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|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|----|------------|----------------------------------|------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| Metamunirite           | $\text{NaV}^{5+}\text{O}_3$                                                                                                                           | A  | 1990-044   | USA                              | <i>Mineralogical Magazine</i> <b>55</b> (1991), 509                                      | <i>Acta Crystallographica</i> <b>B40</b> (1984), 102                                    |
| Metanatroautunite      | $\text{Na}(\text{UO}_2)(\text{PO}_4) \cdot 3\text{H}_2\text{O}$                                                                                       | Rn | 1987 s. p. | Tajikistan                       | <i>Soviet Journal of Atomic Energy</i> <b>3</b> (1957), 1068                             | <i>American Mineralogist</i> <b>97</b> (2012), 735                                      |
| Metanováčekite         | $\text{Mg}(\text{UO}_2)_2(\text{AsO}_4)_2(\text{H}_2\text{O})_5 \cdot 3\text{H}_2\text{O}$                                                            | Rn | 2007 s. p. | Germany                          | <i>Jahreshefte des Geologischen Landesamtes in Baden-Württemberg</i> <b>3</b> (1958), 17 |                                                                                         |
| Metarauchite           | $\text{Ni}(\text{UO}_2)_2(\text{AsO}_4)_2(\text{H}_2\text{O})_5 \cdot 3\text{H}_2\text{O}$                                                            | A  | 2008-050   | Czech Republic                   | <i>Canadian Mineralogist</i> <b>48</b> (2010), 335                                       |                                                                                         |
| Metarossite            | $\text{CaV}^{5+}_2\text{O}_6(\text{H}_2\text{O})_2$                                                                                                   | G  | 1927       | USA                              | <i>Proceedings of the United States National Museum</i> <b>72</b> (1927), 1              | <i>Acta Crystallographica</i> <b>E72</b> (2016), 1280                                   |
| Metasaléeite           | $\text{Mg}(\text{UO}_2)_2(\text{PO}_4)_2 \cdot 8\text{H}_2\text{O}$                                                                                   | G  | 1950       | Democratic Republic of the Congo | <i>American Mineralogist</i> <b>35</b> (1950), 525                                       |                                                                                         |
| Metaschoderite         | $\text{Al}_2(\text{PO}_4)(\text{VO}_4) \cdot 6\text{H}_2\text{O}$                                                                                     | A  | 2024 s. p. | USA                              | <i>American Mineralogist</i> <b>47</b> (1962), 637                                       |                                                                                         |
| Metaschoepite          | $(\text{UO}_2)_8\text{O}_2(\text{OH})_{12} \cdot 10\text{H}_2\text{O}$                                                                                | G  | 1960       | Democratic Republic of the Congo | <i>American Mineralogist</i> <b>45</b> (1960), 1026                                      | <i>Inorganic Chemistry</i> <b>58</b> (2019), 7310                                       |
| Metasideronatrite      | $\text{Na}_2\text{Fe}^{3+}(\text{SO}_4)_2(\text{OH}) \cdot \text{H}_2\text{O}$                                                                        | G  | 1938       | Chile                            | <i>American Mineralogist</i> <b>23</b> (1938), 733                                       | <i>American Mineralogist</i> <b>95</b> (2010), 329                                      |
| Metastibnite           | $\text{Sb}_2\text{S}_3$                                                                                                                               | G  | 1888       | USA                              | <i>Proceedings of the American Philosophical Society</i> <b>25</b> (1888), 170           | <i>Revue de Chimie Minérale</i> <b>20</b> (1983), 196                                   |
| Metastudtite           | $\text{UO}_4 \cdot 2\text{H}_2\text{O}$                                                                                                               | A  | 1981-055   | Democratic Republic of the Congo | <i>American Mineralogist</i> <b>68</b> (1983), 456                                       | <i>Journal of Physical Chemistry C</i> <b>124</b> (2020), 26699                         |
| Metaswitzerite         | $\text{Mn}^{2+}_3(\text{PO}_4)_2(\text{H}_2\text{O})_4$                                                                                               | Rd | 1981-027a  | USA                              | <i>American Mineralogist</i> <b>71</b> (1986), 1221                                      | <i>Tschermaks Mineralogische und Petrographische Mitteilungen</i> <b>26</b> (1979), 255 |
| Metatamboite           | $\text{Fe}^{3+}_3(\text{OH})(\text{H}_2\text{O})_2(\text{SO}_4)(\text{Te}^{4+}\text{O}_3)_3[\text{Te}^{4+}\text{O}(\text{OH})_2](\text{H}_2\text{O})$ | A  | 2016-060   | Chile                            | <i>Canadian Mineralogist</i> <b>57</b> (2019), 605                                       |                                                                                         |
| Metathénardite         | $\text{Na}_2(\text{SO}_4)$                                                                                                                            | A  | 2015-102   | Russia                           | <i>Canadian Mineralogist</i> <b>57</b> (2019), 885                                       |                                                                                         |
| Metatorbernite         | $\text{Cu}(\text{UO}_2)_2(\text{PO}_4)_2(\text{H}_2\text{O})_4 \cdot 4\text{H}_2\text{O}$                                                             | G  | 1916       | United Kingdom                   | <i>Mineralogical Magazine</i> <b>17</b> (1916), 326                                      | <i>Crystals</i> <b>13</b> (2023), 1688                                                  |
| Metatyuyamunite        | $\text{Ca}(\text{UO}_2)_2(\text{VO}_4)_2 \cdot 3\text{H}_2\text{O}$                                                                                   | G  | 1954       | USA                              | <i>Bulletin of the United States Geological Survey</i> <b>1009-B</b> (1954), 37          | <i>Revista Mexicana de Física</i> <b>56</b> (2010), 75                                  |
| Metauramphite          | $(\text{NH}_4)_2(\text{UO}_2)_2(\text{PO}_4)_2 \cdot 6\text{H}_2\text{O}$                                                                             | Q  | 1957 ?     | Russia                           | <i>Voprosy Geologii Urana. Atomic Press, Moscow</i> (1957), 67                           | <i>Mineralogical Record</i> <b>39</b> (2008), 131                                       |
| Metauranocircite       | $\text{Ba}(\text{UO}_2)_2(\text{PO}_4)_2(\text{H}_2\text{O})_4 \cdot 2\text{H}_2\text{O}$                                                             | Rn | 2022 s. p. | Germany                          | <i>Bulletin de la Société Française de Minéralogie</i> <b>27</b> (1904), 222             | <i>Doklady Chemistry</i> <b>389</b> (2003), 58                                          |
| Metauranopilite        | $(\text{UO}_2)_6(\text{SO}_4)(\text{OH})_{10} \cdot 5\text{H}_2\text{O}$                                                                              | Rn | 2007 s. p. | Czech Republic                   | <i>Ceská Společnost Nauk, Trida Matematika-Prírodovedecká Vestník</i> <b>2</b> (1935), 1 | <i>American Mineralogist</i> <b>37</b> (1952), 950                                      |
| Metauranospinite       | $\text{Ca}(\text{UO}_2)_2(\text{AsO}_4)_2 \cdot 8\text{H}_2\text{O}$                                                                                  | Rn | 2007 s. p. | Germany                          | <i>Jahreshefte des Geologischen Landesamtes in Baden-Württemberg</i> <b>3</b> (1958), 17 | <i>Tschermaks Mineralogische und Petrographische Mitteilungen</i> <b>9</b> (1965), 252  |
| Metauroxite            | $(\text{UO}_2)_2(\text{C}_2\text{O}_4)(\text{OH})_2(\text{H}_2\text{O})_2$                                                                            | A  | 2019-030   | USA                              | <i>Mineralogical Magazine</i> <b>84</b> (2020), 131                                      |                                                                                         |
| Metavandendriesscheite | $\text{PbU}_7\text{O}_{22} \cdot n\text{H}_2\text{O}$                                                                                                 | G  | 1960       | Democratic Republic of the Congo | <i>American Mineralogist</i> <b>45</b> (1960), 1026                                      |                                                                                         |
| Metavanmeersscheite    | $\text{U}(\text{UO}_2)_3(\text{PO}_4)_2(\text{OH})_6 \cdot 2\text{H}_2\text{O}$                                                                       | A  | 1981-010   | Democratic Republic of the Congo | <i>Bulletin de Minéralogie</i> <b>105</b> (1982), 125                                    |                                                                                         |

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| Metavanuralite     | $\text{Al}(\text{UO}_2)_2(\text{VO}_4)_2(\text{OH}) \cdot 8\text{H}_2\text{O}$                                                                     | A  | 1970-003  | Gabon               | <i>Bulletin de la Société Française de Minéralogie et de Cristallographie</i> <b>93</b> (1970), 242                                        |                                                                                                     |
| Metavariscite      | $\text{Al}(\text{PO}_4)(\text{H}_2\text{O})_2$                                                                                                     | A  | 1967 s.p. | USA                 | <i>American Mineralogist</i> <b>10</b> (1925), 23                                                                                          | <i>Acta Crystallographica</i> <b>B29</b> (1973), 2292                                               |
| Metavauxite        | $\text{Fe}^{2+}\text{Al}_2(\text{PO}_4)_2(\text{OH})_2 \cdot 8\text{H}_2\text{O}$                                                                  | G  | 1927      | Bolivia             | <i>American Mineralogist</i> <b>12</b> (1927), 264                                                                                         | <i>Crystals</i> <b>9</b> (2019), 297                                                                |
| Metavivianite      | $\text{Fe}^{2+}\text{Fe}^{3+}_2(\text{PO}_4)_2(\text{OH})_2(\text{H}_2\text{O})_6$                                                                 | A  | 1973-049  | USA                 | <i>American Mineralogist</i> <b>59</b> (1974), 896                                                                                         | <i>Mineralogical Magazine</i> <b>76</b> (2012), 743                                                 |
| Metavoltine        | $\text{K}_2\text{Na}_6\text{Fe}^{2+}\text{Fe}^{3+}_6\text{O}_2(\text{SO}_4)_{12} \cdot 18\text{H}_2\text{O}$                                       | G  | 1883      | Iran                | <i>Sitzungsberichte der Mathematisch-Naturwissenschaftlichen Classe der Kaiserlichen Akademie der Wissenschaften</i> <b>87</b> (1883), 141 | <i>Tschermaks Mineralogische und Petrographische Mitteilungen</i> <b>23</b> (1976), 155             |
| Metazellerite      | $\text{Ca}(\text{UO}_2)(\text{CO}_3)_2 \cdot 3\text{H}_2\text{O}$                                                                                  | A  | 1965-032  | USA                 | <i>American Mineralogist</i> <b>51</b> (1966), 1567                                                                                        |                                                                                                     |
| Metazeunerite      | $\text{Cu}(\text{UO}_2)_2(\text{AsO}_4)_2(\text{H}_2\text{O})_4 \cdot 4\text{H}_2\text{O}$                                                         | G  | 1937      | Germany             | <i>Geochemist's and Mineralogist's Compendium</i> (1937) 173                                                                               | <i>Crystals</i> <b>13</b> (2023), 1688                                                              |
| Meurigite-K        | $\text{KFe}^{3+}_8(\text{PO}_4)_6(\text{OH})_7 \cdot 6.5\text{H}_2\text{O}$                                                                        | Rn | 1995-022  | USA                 | <i>Mineralogical Magazine</i> <b>60</b> (1996), 787                                                                                        | <i>American Mineralogist</i> <b>92</b> (2007), 1518                                                 |
| Meurigite-Na       | $[\text{Na}(\text{H}_2\text{O})_{2.5}][\text{Fe}^{3+}_8(\text{PO}_4)_6(\text{OH})_7(\text{H}_2\text{O})_4]$                                        | A  | 2007-024  | USA                 | <i>American Mineralogist</i> <b>94</b> (2009), 720                                                                                         |                                                                                                     |
| Meyerhofferite     | $\text{CaB}_3\text{O}_3(\text{OH})_5 \cdot \text{H}_2\text{O}$                                                                                     | G  | 1914      | USA                 | <i>Journal of the Washington Academy of Sciences</i> <b>4</b> (1914), 354                                                                  | <i>Physics and Chemistry of Minerals</i> <b>49</b> (2022), 22                                       |
| Meymacite          | $\text{WO}_3 \cdot 2\text{H}_2\text{O}$                                                                                                            | Rd | 1965 s.p. | France              | <i>Comptes Rendus de l'Académie des Sciences de Paris</i> <b>79</b> (1874), 639                                                            | <i>Bulletin de la Société Française de Minéralogie et de Cristallographie</i> <b>88</b> (1965), 613 |
| Meyrowitzite       | $\text{Ca}(\text{UO}_2)(\text{CO}_3)_2 \cdot 5\text{H}_2\text{O}$                                                                                  | A  | 2018-039  | USA                 | <i>American Mineralogist</i> <b>104</b> (2019), 603                                                                                        |                                                                                                     |
| Mgriite            | $\text{Cu}_3\text{AsSe}_3$                                                                                                                         | A  | 1980-100  | Germany             | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>111</b> (1982), 215                                                          | <i>Canadian Mineralogist</i> <b>28</b> (1990), 751                                                  |
| Mianningite        | $(\square, \text{Pb}, \text{Ce}, \text{Na})(\text{U}^{4+}, \text{Mn}, \text{U}^{6+})\text{Fe}^{3+}_2(\text{Ti}, \text{Fe}^{3+})_{18}\text{O}_{38}$ | A  | 2014-072  | China               | <i>European Journal of Mineralogy</i> <b>29</b> (2017), 331                                                                                |                                                                                                     |
| Miargyrite         | $\text{AgSbS}_2$                                                                                                                                   | G  | 1829      | Germany             | <i>Annalen der Physik und Chemie</i> <b>15</b> (1829), 451                                                                                 | <i>American Mineralogist</i> <b>87</b> (2002), 753                                                  |
| Miassite           | $\text{Rh}_{17}\text{S}_{15}$                                                                                                                      | A  | 1997-029  | Russia              | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>130(2)</b> (2001), 41                                                      | <i>Acta Crystallographica</i> <b>15</b> (1962), 1198                                                |
| Michalskiite       | $\text{Cu}^{2+}\text{Mg}_3\text{Fe}^{3+}_{3.33}(\text{VO}_4)_6$                                                                                    | A  | 2019-062  | Germany             | <i>Journal of Geosciences</i> <b>67</b> (2022), 33                                                                                         |                                                                                                     |
| Micheelsenite      | $(\text{Ca}, \text{Y})_3\text{Al}(\text{PO}_3\text{OH})(\text{CO}_3)(\text{OH})_6(\text{H}_2\text{O})_{12}$                                        | A  | 1999-033  | Denmark (Greenland) | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (2001), 337                                                                              |                                                                                                     |
| Michenerite        | $\text{PdBiTe}$                                                                                                                                    | Rd | 1971-006a | Canada              | <i>Canadian Mineralogist</i> <b>6</b> (1958), 200                                                                                          | <i>Canadian Mineralogist</i> <b>12</b> (1973), 61                                                   |
| Michitoshiite-(Cu) | $\text{Rh}(\text{Cu}_{1-x}\text{Ge}_x) \quad 0 < x \leq 0.5$                                                                                       | A  | 2019-029a | Japan               | <i>Bulletin of the National Museum of Nature and Science, Ser. C</i> <b>50</b> (2024), 1                                                   |                                                                                                     |
| Microcline         | $\text{K}(\text{AlSi}_3\text{O}_8)$                                                                                                                | G  | 1830      | Norway              | <i>Journal für Chemie und Physik</i> <b>60</b> (1830), 316                                                                                 | <i>European Journal of Mineralogy</i> <b>27</b> (2015), 501                                         |
| Microsommite       | $[(\text{Na}, \text{K})_6(\text{SO}_4)][\text{Ca}_2\text{Cl}_2][(\text{Si}_6\text{Al}_6\text{O}_{24})]$                                            | G  | 1872      | Italy               | <i>Rendiconto dell'Accademia delle Scienze Fisiche e Matematiche</i> <b>11</b> (1872), 210                                                 | <i>Physics and Chemistry of Minerals</i> <b>28</b> (2001), 509                                      |
| Midbarite          | $\text{Ca}_3\text{Mg}_2(\text{V}_2\text{Si})\text{O}_{12}$                                                                                         | A  | 2023-110  | Israel              | CNMNC Newsletter 78 - <i>Mineralogical Magazine</i> <b>88</b> (2024), 345; <i>European Journal of Mineralogy</i> <b>36</b> (2024), 361     | <a href="https://doi.org/10.1180/mgm.2026.10202">https://doi.org/10.1180/mgm.2026.10202</a>         |

|                 |                                                                     |   |          |                |                                                                                                                                        |                                                                |
|-----------------|---------------------------------------------------------------------|---|----------|----------------|----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|
| Middendorffite  | $K_3Na_2Mn_5Si_{12}(O,OH)_{36} \cdot 2H_2O$                         | A | 2005-028 | Russia         | <i>Zapiski Rossiyskogo Mineralogicheskogo Obshchestva</i> <b>135(3)</b> (2006), 42                                                     |                                                                |
| Middlebackite   | $Cu_2C_2O_4(OH)_2$                                                  | A | 2015-115 | Australia      | <i>Mineralogical Magazine</i> <b>83</b> (2019), 427                                                                                    | <i>Powder Diffraction</i> <b>34</b> (2019), 311                |
| Mieite-(Y)      | $Y_4Ti(SiO_4)_2O[F, (OH)]_6$                                        | A | 2014-020 | Japan          | <i>Journal of Mineralogical and Petrological Sciences</i> <b>110</b> (2015), 135                                                       |                                                                |
| Miersite        | AgI                                                                 | G | 1898     | Australia      | <i>Nature</i> <b>57</b> (1898), 574                                                                                                    | <i>Mineralogical Magazine</i> <b>62</b> (1998), 471            |
| Miessite        | $Pd_{11}Te_2Se_2$                                                   | A | 2006-013 | Finland        | <i>Canadian Mineralogist</i> <b>45</b> (2007), 1221                                                                                    |                                                                |
| Miguelromeroite | $Mn^{2+}_5(AsO_3OH)_2(AsO_4)_2(H_2O)_4$                             | A | 2008-066 | Mexico         | <i>American Mineralogist</i> <b>94</b> (2009), 1535                                                                                    |                                                                |
| Miharaite       | $PbCu_4FeBiS_6$                                                     | A | 1976-012 | Japan          | <i>American Mineralogist</i> <b>65</b> (1980), 784                                                                                     | <i>Doklady Akademii Nauk SSSR</i> <b>299</b> (1988), 123       |
| Mikasaite       | $Fe^{3+}_2(SO_4)_3$                                                 | A | 1992-015 | Japan          | <i>Mineralogical Magazine</i> <b>58</b> (1994), 649                                                                                    | <i>Zeitschrift für Kristallographie</i> <b>144</b> (1976), 341 |
| Mikecoxite      | $[CHg_4]OCl_2$                                                      | A | 2021-060 | USA            | <i>American Mineralogist</i> <b>108</b> (2023), 606                                                                                    |                                                                |
| Mikehowardite   | $Fe^{3+}_4(V^{5+}O_4)_4(H_2O)_2 \cdot H_2O$                         | A | 2020-068 | USA            | <i>Canadian Mineralogist</i> <b>60</b> (2022), 543                                                                                     |                                                                |
| Mikenewite      | $Mn^{2+}(SO_3)(H_2O)_3$                                             | A | 2022-102 | Mexico         | <i>Mineralogical Magazine</i> <b>87</b> (2023), 534                                                                                    |                                                                |
| Milanriederite  | $(Ca,REE)_{19}Fe^{3+}Al_4(Mg,Al,Fe^{3+})_8Si_{18}O_{68}(OH,O)_{10}$ | A | 2018-041 | Namibia        | <i>European Journal of Mineralogy</i> <b>31</b> (2019), 637                                                                            |                                                                |
| Milarite        | $KCa_2(Be_2AlSi_{12})O_{30} \cdot H_2O$                             | G | 1870     | Switzerland    | <i>Neues Jahrbuch für Mineralogie, Geologie und Paläontologie</i> (1870), 80                                                           | <i>European Journal of Mineralogy</i> <b>1</b> (1989), 353     |
| Milkovoite      | $Cu_4O(PO_4)(AsO_4)$                                                | A | 2021-005 | Russia         | CNMNC Newsletter 61 - <i>Mineralogical Magazine</i> <b>85</b> (2021), 459; <i>European Journal of Mineralogy</i> <b>33</b> (2021), 299 |                                                                |
| Millerite       | NiS                                                                 | G | 1845     | Czech Republic | Handbuch der Bestimmenden Mineralogie. Braumüller and Seidel, Wien (1845), 559                                                         | <i>Physics and Chemistry of Minerals</i> <b>31</b> (2004), 321 |
| Millisite       | $NaCaAl_6(PO_4)_4(OH)_9(H_2O)_3$                                    | G | 1930     | USA            | <i>American Mineralogist</i> <b>15</b> (1930), 307                                                                                     | <i>American Mineralogist</i> <b>45</b> (1960), 547             |
| Millosevichite  | $Al_2(SO_4)_3$                                                      | G | 1913     | Italy          | <i>Rendiconti dell'Accademia dei Lincei, Classe di Scienze Fisiche, Matematiche e Naturali, Serie V</i> <b>22</b> (1913), 303          | <i>Zeitschrift für Kristallographie</i> <b>204</b> (1993), 57  |
| Millsite        | $CuTeO_3 \cdot 2H_2O$                                               | A | 2015-086 | Norway         | <i>Mineralogical Magazine</i> <b>82</b> (2018), 433                                                                                    |                                                                |
| Milotaite       | $PdSbSe$                                                            | A | 2003-056 | Czech Republic | <i>Canadian Mineralogist</i> <b>43</b> (2005), 689                                                                                     |                                                                |
| Mimetite        | $Pb_5(AsO_4)_3Cl$                                                   | G | 1832     | Germany        | Traité Élémentaire de Minéralogie, 2nd ed. Verdière, Paris(1832), 594                                                                  | <i>Acta Crystallographica</i> <b>B78</b> (2022), 618           |
| Minakawaite     | RhSb                                                                | A | 2019-024 | Japan          | <i>Journal of Mineralogical and Petrological Sciences</i> <b>114</b> (2019), 252                                                       | <i>Acta Chemica Scandinavica</i> <b>A31</b> (1977), 249        |
| Minasragrite    | $V^{4+}O(SO_4)(H_2O)_4 \cdot H_2O$                                  | G | 1915     | Peru           | <i>Journal of the Washington Academy of Sciences</i> <b>5</b> (1915), 7                                                                | <i>Acta Crystallographica</i> <b>B35</b> (1979), 1545          |
| Mineevite-(Y)   | $Na_{25}BaY_2(CO_3)_{11}(HCO_3)_4(SO_4)_2F_2Cl$                     | A | 1991-048 | Russia         | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>121(6)</b> (1992), 138                                                 |                                                                |
| Minehillite     | $(K,Na)_2Ca_{28}Zn_5Al_4Si_{40}O_{112}(OH)_{16}$                    | A | 1983-001 | USA            | <i>American Mineralogist</i> <b>69</b> (1984), 1150                                                                                    | <i>American Mineralogist</i> <b>80</b> (1995), 173             |
| Minguzzite      | $K_3Fe^{3+}(C_2O_4)_3 \cdot 3H_2O$                                  | G | 1955     | Italy          | <i>Accademia Nazionale dei Lincei, Rendiconti della Classe di Scienze Fisiche, Matematiche e Naturali</i> <b>18</b> (1955), 392        | <i>Journal of Coordination Chemistry</i> <b>58</b> (2005), 355 |
| Minium          | $Pb^{4+}Pb^{2+}_2O_4$                                               | G | 1806     | Germany        | <i>Philosophical Transactions of the Royal Society of London</i> <b>96</b> (1806), 267                                                 | <i>American Mineralogist</i> <b>88</b> (2003), 996             |

|                 |                                                                                                                                                                                                                         |    |           |                |                                                                                                                                        |                                                                   |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----------|----------------|----------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| Minjiangite     | BaBe <sub>2</sub> (PO <sub>4</sub> ) <sub>2</sub>                                                                                                                                                                       | A  | 2013-021  | China          | <i>Mineralogical Magazine</i> <b>79</b> (2015), 1195                                                                                   | <i>Canadian Mineralogist</i> <b>52</b> (2014), 337                |
| Minnesotaite    | Fe <sup>2+</sup> <sub>3</sub> Si <sub>4</sub> O <sub>10</sub> (OH) <sub>2</sub>                                                                                                                                         | G  | 1944      | USA            | <i>American Mineralogist</i> <b>29</b> (1944), 363                                                                                     | <i>Canadian Mineralogist</i> <b>24</b> (1986), 479                |
| Minohllite      | (Cu,Zn) <sub>7</sub> (SO <sub>4</sub> ) <sub>2</sub> (OH) <sub>10</sub> ·8H <sub>2</sub> O                                                                                                                              | A  | 2012-035  | Japan          | <i>Mineralogical Magazine</i> <b>77</b> (2013), 335                                                                                    |                                                                   |
| Minrecordite    | CaZn(CO <sub>3</sub> ) <sub>2</sub>                                                                                                                                                                                     | A  | 1980-096  | Namibia        | <i>Mineralogical Record</i> <b>13</b> (1982), 131                                                                                      |                                                                   |
| Minyulite       | KAl <sub>2</sub> (PO <sub>4</sub> ) <sub>2</sub> F·4H <sub>2</sub> O                                                                                                                                                    | Rd | 2021 s.p. | Australia      | <i>Journal of the Royal Society of Western Australia</i> <b>19</b> (1933), 13                                                          | <i>Australian Journal of Mineralogy</i> <b>23</b> (2022), 21      |
| Mirabilite      | Na <sub>2</sub> (SO <sub>4</sub> )·10H <sub>2</sub> O                                                                                                                                                                   | G  | 1845      | unknown        | Handbuch der Bestimmenden Mineralogie. Braumüller and Seidel, Wien (1845), 488                                                         | <i>Journal of Solid State Chemistry</i> <b>304</b> (2021), 122574 |
| Mirnyite        | SrZr <sup>4+</sup> (Ti <sup>4+</sup> <sub>12</sub> Cr <sup>3+</sup> <sub>6</sub> )Mg <sub>2</sub> O <sub>38</sub>                                                                                                       | A  | 2018-144a | Russia         | <i>Mineralogical Magazine</i> <b>87</b> (2023), 433                                                                                    |                                                                   |
| Misakiite       | Cu <sub>3</sub> Mn(OH) <sub>6</sub> Cl <sub>2</sub>                                                                                                                                                                     | A  | 2013-131  | Japan          | <i>Mineralogical Magazine</i> <b>81</b> (2017), 485                                                                                    |                                                                   |
| Misenite        | K <sub>8</sub> (SO <sub>4</sub> )(SO <sub>3</sub> OH) <sub>6</sub>                                                                                                                                                      | G  | 1849      | Italy          | <i>Atti della Reale Accademia delle Scienze Fisiche e Matematiche di Napoli</i> <b>8</b> (1849), 322                                   | <i>U.S. Geological Survey Bulletin</i> <b>679</b> (1921), 111     |
| Miserite        | K <sub>1.5-x</sub> (Ca,Y,REE) <sub>5</sub> [Si <sub>6</sub> O <sub>15</sub> ][Si <sub>2</sub> O <sub>7</sub> ](OH,F) <sub>2</sub> ·yH <sub>2</sub> O                                                                    | G  | 1950      | USA            | <i>American Mineralogist</i> <b>35</b> (1950), 911                                                                                     | <i>Physics and Chemistry of Minerals</i> <b>41</b> (2014), 49     |
| Mitridatite     | Ca <sub>2</sub> Fe <sup>3+</sup> <sub>3</sub> O <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> (H <sub>2</sub> O) <sub>2</sub> ·H <sub>2</sub> O                                                                          | G  | 1914      | Ukraine        | <i>Zapiski Krymskogo Obshchestva Estestvoispytatelei</i> <b>4</b> (1914), 104                                                          | <i>Inorganic Chemistry</i> <b>16</b> (1977), 1096                 |
| Mitrofanovite   | Pt <sub>3</sub> Te <sub>4</sub>                                                                                                                                                                                         | A  | 2017-112  | Russia         | <i>Mineralogical Magazine</i> <b>83</b> (2019), 523                                                                                    |                                                                   |
| Mitryaevaite    | Al <sub>5</sub> (PO <sub>4</sub> ) <sub>2</sub> [(P,S)O <sub>3</sub> (OH,O)] <sub>2</sub> F <sub>2</sub> (OH) <sub>2</sub> ·14.5H <sub>2</sub> O                                                                        | A  | 1991-035  | Kazakhstan     | <i>Canadian Mineralogist</i> <b>39</b> (2001), 179                                                                                     |                                                                   |
| Mitscherlichite | K <sub>2</sub> CuCl <sub>4</sub> ·2H <sub>2</sub> O                                                                                                                                                                     | G  | 1925      | Italy          | <i>Annali del R. Osservatorio Vesuviano, Serie III</i> <b>2</b> (1925), 7                                                              | <i>Acta Crystallographica</i> <b>B26</b> (1970), 827              |
| Mixite          | Cu <sub>6</sub> Bi(AsO <sub>4</sub> ) <sub>3</sub> (OH) <sub>6</sub> (H <sub>2</sub> O) <sub>3</sub>                                                                                                                    | G  | 1880      | Czech Republic | <i>Zeitschrift für Krystallographie und Mineralogie</i> <b>4</b> (1880), 277                                                           | <i>Physics and Chemistry of Minerals</i> <b>24</b> (1997), 411    |
| Miyahisaite     | (Sr,Ca) <sub>2</sub> Ba <sub>3</sub> (PO <sub>4</sub> ) <sub>3</sub> F                                                                                                                                                  | A  | 2011-043  | Japan          | <i>Journal of Mineralogical and Petrological Sciences</i> <b>107</b> (2012), 121                                                       |                                                                   |
| Miyawakiite-(Y) | □Y <sub>4</sub> Fe <sub>2</sub> (Si <sub>8</sub> O <sub>20</sub> )(CO <sub>3</sub> ) <sub>4</sub> (H <sub>2</sub> O) <sub>3</sub>                                                                                       | A  | 2024-003  | Japan          | <i>Journal of Mineralogical and Petrological Sciences</i> <b>119</b> (2024), 240722                                                    |                                                                   |
| Mizraite-(Ce)   | Ce(Al <sub>11</sub> Mg)O <sub>19</sub>                                                                                                                                                                                  | A  | 2022-027  | Israel         | <i>Materials</i> <b>16</b> (2023), 7578                                                                                                |                                                                   |
| Moabite         | NiFe <sup>3+</sup> (PO <sub>4</sub> )O                                                                                                                                                                                  | A  | 2020-092  | Jordan         | <i>European Journal of Mineralogy</i> <b>37</b> (2025), 353                                                                            |                                                                   |
| Moctezumite     | Pb(UO <sub>2</sub> )(Te <sup>4+</sup> O <sub>3</sub> ) <sub>2</sub>                                                                                                                                                     | A  | 1965-004  | Mexico         | <i>American Mineralogist</i> <b>50</b> (1965), 1158                                                                                    | <i>American Mineralogist</i> <b>78</b> (1993), 835                |
| Modderite       | CoAs                                                                                                                                                                                                                    | G  | 1923      | South Africa   | <i>Journal of the Chemical, Metallurgical and Mining Society of South Africa</i> <b>24</b> (1923), 90                                  | <i>Acta Crystallographica</i> <b>B40</b> (1984), 14               |
| Modraite        | Ca <sub>19</sub> Fe <sup>2+</sup> Al <sub>4</sub> (Al <sub>6</sub> Fe <sup>2+</sup> <sub>2</sub> )(□ <sub>4</sub> )□(SiO <sub>4</sub> ) <sub>10</sub> (Si <sub>2</sub> O <sub>7</sub> ) <sub>4</sub> (OH) <sub>10</sub> | A  | 2023-108a | Slovakia       | CNMNC Newsletter 79 - <i>Mineralogical Magazine</i> <b>88</b> (2024), 510; <i>European Journal of Mineralogy</i> <b>36</b> (2024), 525 |                                                                   |
| Moëloite        | Pb <sub>6</sub> Sb <sub>6</sub> S <sub>14</sub> (S) <sub>3</sub>                                                                                                                                                        | A  | 1998-045  | Italy          | <i>European Journal of Mineralogy</i> <b>14</b> (2002), 599                                                                            |                                                                   |
| Mogánite        | SiO <sub>2</sub> ·nH <sub>2</sub> O                                                                                                                                                                                     | Rn | 1999-035  | Spain          | <i>European Journal of Mineralogy</i> <b>17</b> (2005), 21                                                                             | <i>Minerals</i> <b>11</b> (2021), 272                             |
| Mogovidite      | Na <sub>9</sub> (Ca,Na) <sub>12</sub> Fe <sub>2</sub> Zr <sub>3</sub> Si <sub>25</sub> O <sub>72</sub> (CO <sub>3</sub> )(OH) <sub>4</sub>                                                                              | A  | 2004-040  | Russia         | <i>Zapiski Rossiyskogo Mineralogicheskogo Obshchestva</i> <b>134(6)</b> (2005), 36                                                     | <i>Doklady Akademii Nauk</i> <b>400</b> (2005), 640               |
| Mohite          | Cu <sub>2</sub> SnS <sub>3</sub>                                                                                                                                                                                        | A  | 1981-015  | Uzbekistan     | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>111</b> (1982), 110                                                      | <i>Materials Research Bulletin</i> <b>35</b> (2000), 1563         |

|                  |                                                                                                                      |    |           |                 |                                                                                                                                             |                                                                                  |
|------------------|----------------------------------------------------------------------------------------------------------------------|----|-----------|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
| Möhnite          | $(\text{NH}_4)\text{K}_2\text{Na}(\text{SO}_4)_2$                                                                    | A  | 2014-101  | Chile           | <i>Mineralogy and Petrology</i> <b>109</b> (2015), 643                                                                                      |                                                                                  |
| Mohrite          | $(\text{NH}_4)_2\text{Fe}^{2+}(\text{SO}_4)_2(\text{H}_2\text{O})_6$                                                 | A  | 1964-023  | Italy           | <i>Accademia Nazionale dei Lincei, Rendiconti della Classe di Scienze Fisiche, Matematiche e Naturali, Serie VIII</i> <b>36</b> (1964), 524 | <i>Acta Crystallographica</i> <b>C45</b> (1989), 942                             |
| Moiraitite       | $\text{Pb}_{12}\text{Sb}_8\text{As}_8\text{S}_{36}$                                                                  | A  | 2024-028  | Canada          | CNMNC Newsletter 81 - <i>Mineralogical Magazine</i> <b>88</b> (2024), 632; <i>European Journal of Mineralogy</i> <b>36</b> (2024), 917      |                                                                                  |
| Moissanite       | SiC                                                                                                                  | G  | 1905      | USA (meteorite) | <i>American Journal of Science</i> <b>19</b> (1905), 396                                                                                    | <i>Physics and Chemistry of Minerals</i> <b>52</b> (2025), 16                    |
| Mojaveite        | $\text{Cu}_6[\text{Te}^{6+}\text{O}_4(\text{OH})_2](\text{OH})_7\text{Cl}$                                           | A  | 2013-120  | USA             | <i>Mineralogical Magazine</i> <b>78</b> (2014), 1325                                                                                        |                                                                                  |
| Molinelloite     | $\text{Cu}(\text{H}_2\text{O})(\text{OH})\text{V}^{4+}\text{O}(\text{V}^{5+}\text{O}_4)$                             | A  | 2016-055  | Italy           | CNMNC Newsletter 33 - <i>Mineralogical Magazine</i> <b>80</b> (2016), 1135                                                                  |                                                                                  |
| Moluranite       | $\text{H}_4\text{U}^{4+}(\text{UO}_2)_3(\text{MoO}_4)_7 \cdot 18\text{H}_2\text{O}$                                  | G  | 1959      | Russia          | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>88</b> (1959), 564                                                            |                                                                                  |
| Molybdenite      | $\text{MoS}_2$                                                                                                       | G  | 1796      | unknown         | Elements of Mineralogy, 2nd ed., vol. 2. Elmsly, London (1796), 319                                                                         | <i>American Mineralogist</i> <b>107</b> (2022), 997                              |
| Molybdite        | $\text{MoO}_3$                                                                                                       | Rd | 1963 s.p. | Czech Republic  | <i>Acta Universitatis Carolinae Geologica</i> <b>1</b> (1963), 1                                                                            | <i>Powder Diffraction</i> <b>24</b> (2009), 315                                  |
| Molybdoformacite | $\text{CuPb}_2(\text{MoO}_4)(\text{AsO}_4)(\text{OH})$                                                               | A  | 1982-062  | Namibia         | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1983), 289                                                                               |                                                                                  |
| Molybdomenite    | $\text{PbSe}^{4+}\text{O}_3$                                                                                         | Rn | 2007 s.p. | Argentina       | <i>Bulletin de la Société Minéralogique de France</i> <b>5</b> (1882), 90                                                                   | <i>Canadian Journal of Mineralogy and Petrology</i> <b>62</b> (2024), 643        |
| Molybdophyllite  | $\text{Pb}_8\text{Mg}_9[\text{Si}_{10}\text{O}_{26}(\text{OH})_8\text{O}_2(\text{CO}_3)_3] \cdot \text{H}_2\text{O}$ | G  | 1901      | Sweden          | <i>Bulletin of the Geological Institution of the University of Upsala</i> <b>5</b> (1901), 81                                               | <i>Mineralogical Magazine</i> <b>76</b> (2012), 493                              |
| Molysite         | $\text{FeCl}_3$                                                                                                      | G  | 1868      | Italy           | A System of Mineralogy, 5th ed. Wiley, New York (1868), 118                                                                                 | <i>Journal of Applied Crystallography</i> <b>22</b> (1989), 173                  |
| Momoiite         | $\text{Mn}^{2+}_3\text{V}^{3+}_2(\text{SiO}_4)_3$                                                                    | A  | 2009-026  | Japan           | <i>Journal of Mineralogical and Petrological Sciences</i> <b>105</b> (2010), 92                                                             | <i>Journal of Mineralogical and Petrological Sciences</i> <b>114</b> (2019), 161 |
| Monazite-(Ce)    | $\text{Ce}(\text{PO}_4)$                                                                                             | Rn | 1966 s.p. | Russia          | <i>Journal für Chemie und Physik</i> <b>55</b> (1829), 296                                                                                  | <i>Mineralogical Magazine</i> <b>88</b> (2024), 682                              |
| Monazite-(Gd)    | $\text{Gd}(\text{PO}_4)$                                                                                             | A  | 2022-055  | Slovakia        | <i>Mineralogical Magazine</i> <b>87</b> (2023), 568                                                                                         |                                                                                  |
| Monazite-(La)    | $\text{La}(\text{PO}_4)$                                                                                             | Rn | 1966 s.p. | Kazakhstan      | <i>Comptes Rendus de l'Académie des Sciences de l'URSS</i> <b>49</b> (1945), 353                                                            | <i>American Mineralogist</i> <b>80</b> (1995), 21                                |
| Monazite-(Nd)    | $\text{Nd}(\text{PO}_4)$                                                                                             | A  | 1986-052  | Italy           | <i>Schweizerische Mineralogische und Petrographische Mitteilungen</i> <b>67</b> (1987), 103                                                 | <i>American Mineralogist</i> <b>80</b> (1995), 21                                |
| Monazite-(Sm)    | $\text{Sm}(\text{PO}_4)$                                                                                             | A  | 2001-001  | Canada          | <i>Canadian Mineralogist</i> <b>40</b> (2002), 1649                                                                                         | <i>Minerals</i> <b>10</b> (2020), 1028                                           |
| Moncheite        | $\text{Pt}(\text{Te},\text{Bi})_2$                                                                                   | A  | 1967 s.p. | Russia          | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>92</b> (1963), 33                                                             | <i>Geochimica</i> (1975), 184                                                    |
| Monchetundraite  | $\text{Pd}_2\text{NiTe}_2$                                                                                           | A  | 2019-020  | Russia          | <i>Mineralogy and Petrology</i> <b>114</b> (2020), 263                                                                                      |                                                                                  |
| Monetite         | $\text{Ca}(\text{PO}_3\text{OH})$                                                                                    | G  | 1882      | Puerto Rico     | <i>American Journal of Science</i> <b>23</b> (1882), 400                                                                                    | <i>Acta Crystallographica</i> <b>B33</b> (1977), 1223                            |
| Mongolite        | $\text{Ca}_4\text{Nb}_6\text{Si}_5\text{O}_{24}(\text{OH})_{10} \cdot 6\text{H}_2\text{O}$                           | A  | 1983-027  | Mongolia        | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>114</b> (1985), 374                                                           |                                                                                  |

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|--------------------|-------------------------------------------------------------------------------------------------------|----|-----------|--------------------|----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|
| Monimolite         | $\text{Pb}_2\text{Sb}^{5+}_2\text{O}_7$                                                               | Q  | 2013 s.p. | Sweden             | <i>Öfversigt af Kongliga Vetenskaps-Akademiens Förhandlingar</i> <b>22</b> (1866), 227                                                 |                                                                |
| Monipite           | MoNiP                                                                                                 | A  | 2007-033  | Mexico (meteorite) | <i>American Mineralogist</i> <b>99</b> (2014), 198                                                                                     | <i>Solid State Communications</i> <b>116</b> (2000), 683       |
| Monohydrocalcite   | $\text{Ca}(\text{CO}_3) \cdot \text{H}_2\text{O}$                                                     | G  | 1964      | Kyrgyzstan         | <i>Kristallografiya</i> <b>9</b> (1964), 109                                                                                           | <i>American Mineralogist</i> <b>106</b> (2021), 1294           |
| Montanite          | $\text{Bi}^{3+}_2\text{Te}^{6+}\text{O}_6 \cdot n\text{H}_2\text{O}$ ( $0 < n < 2/3$ )                | Rd | 2022 s.p. | USA                | <i>American Journal of Science</i> <b>45</b> (1868), 318                                                                               | <i>Physics and Chemistry of Minerals</i> <b>49</b> (2022), 21  |
| Montbrayite        | $(\text{Au,Ag,Sb,Bi,Pb})_{23}(\text{Te,Sb,Bi,Pb})_{38}$                                               | Rd | 2017 s.p. | Canada             | <i>American Mineralogist</i> <b>31</b> (1946), 515                                                                                     | <i>Canadian Mineralogist</i> <b>56</b> (2018), 129             |
| Montdorite         | $\text{KFe}^{2+}_{1.5}\text{Mn}^{2+}_{0.5}\text{Mg}_{0.5}\text{Si}_4\text{O}_{10}(\text{F,OH})_2$     | Rd | 1998 s.p. | France             | <i>Contributions to Mineralogy and Petrology</i> <b>68</b> (1979), 117                                                                 | <i>Canadian Mineralogist</i> <b>36</b> (1998), 905             |
| Montebrasite       | $\text{LiAl}(\text{PO}_4)(\text{OH})$                                                                 | G  | 1871      | France             | <i>Comptes Rendus Hebdomadaires des Séances de l'Académie des Sciences</i> <b>73</b> (1871), 306                                       | <i>American Mineralogist</i> <b>88</b> (2003), 195             |
| Monteneroite       | $\text{Cu}^{2+}\text{Mn}^{2+}_2(\text{AsO}_4)_2(\text{H}_2\text{O})_8$                                | A  | 2020-028  | Italy              | <i>Mineralogical Magazine</i> <b>84</b> (2020), 881                                                                                    |                                                                |
| Monteneveite       | $\text{Ca}_3\text{Sb}^{5+}_2(\text{Fe}^{3+}_2\text{Fe}^{2+})\text{O}_{12}$                            | A  | 2018-060  | Italy              | <i>European Journal of Mineralogy</i> <b>32</b> (2020), 77                                                                             |                                                                |
| Monteponite        | $\text{CdO}$                                                                                          | G  | 1946      | Italy              | <i>Economic Geology</i> <b>41</b> (1946), 761                                                                                          | <i>American Mineralogist</i> <b>101</b> (2016), 146            |
| Monteregianite-(Y) | $\text{KNa}_2\text{YSi}_8\text{O}_{19} \cdot 5\text{H}_2\text{O}$                                     | Rn | 1987 s.p. | Canada             | <i>Canadian Mineralogist</i> <b>16</b> (1978), 561                                                                                     | <i>Journal of Physical Chemistry B</i> <b>102</b> (1998), 4379 |
| Montesommaite      | $\text{K}_9(\text{Si}_{23}\text{Al}_9)\text{O}_{64} \cdot 10\text{H}_2\text{O}$                       | A  | 1988-038  | Italy              | <i>American Mineralogist</i> <b>75</b> (1990), 1415                                                                                    |                                                                |
| Montetrisaite      | $\text{Cu}_6(\text{SO}_4)(\text{OH})_{10} \cdot 2\text{H}_2\text{O}$                                  | A  | 2007-009  | Italy              | <i>Canadian Mineralogist</i> <b>47</b> (2009), 143                                                                                     |                                                                |
| Montgomeryite      | $\text{Ca}_4\text{MgAl}_4(\text{PO}_4)_6(\text{OH})_4(\text{H}_2\text{O})_{12}$                       | G  | 1940      | USA                | <i>American Mineralogist</i> <b>25</b> (1940), 315                                                                                     | <i>American Mineralogist</i> <b>59</b> (1974), 843             |
| Monticellite       | $\text{CaMg}(\text{SiO}_4)$                                                                           | G  | 1831      | Italy              | <i>Philosophical Magazine</i> <b>10</b> (1831), 265                                                                                    | <i>American Mineralogist</i> <b>72</b> (1987), 748             |
| Montmorillonite    | $(\text{Na,Ca})_{0.3}(\text{Al,Mg})_2\text{Si}_4\text{O}_{10}(\text{OH})_2 \cdot n\text{H}_2\text{O}$ | G  | 1847      | France             | <i>Bulletin de la Société Géologique de France</i> <b>4</b> (1847), 168                                                                | <i>Physics and Chemistry of Minerals</i> <b>35</b> (2008), 49  |
| Montpelvouxite     | $\text{AgPb}_{16}\text{Sb}_{27}\text{As}_{18}\text{S}_{84}$                                           | A  | 2022-137  | France             | CNMNC Newsletter 72 - <i>Mineralogical Magazine</i> <b>87</b> (2023), 512; <i>European Journal of Mineralogy</i> <b>35</b> (2023), 285 |                                                                |
| Montroseite        | $\text{V}^{3+}\text{O}(\text{OH})$                                                                    | G  | 1953      | USA                | <i>American Mineralogist</i> <b>38</b> (1953), 1235                                                                                    | <i>American Mineralogist</i> <b>40</b> (1955), 861             |
| Montroyalite       | $\text{Sr}_4\text{Al}_8(\text{CO}_3)_3(\text{OH})_{26} \cdot 10\text{H}_2\text{O}$                    | A  | 1985-001  | Canada             | <i>Canadian Mineralogist</i> <b>24</b> (1986), 455                                                                                     |                                                                |
| Montroydite        | $\text{HgO}$                                                                                          | G  | 1903      | USA                | <i>American Journal of Science</i> <b>16</b> (1903), 259                                                                               | <i>Acta Chemica Scandinavica</i> <b>18</b> (1964), 1305        |
| Mooihoekite        | $\text{Cu}_9\text{Fe}_9\text{S}_{16}$                                                                 | A  | 1971-019  | South Africa       | <i>American Mineralogist</i> <b>57</b> (1972), 689                                                                                     | <i>Acta Crystallographica</i> <b>B29</b> (1973), 2365          |
| Moolooite          | $\text{Cu}(\text{C}_2\text{O}_4) \cdot n\text{H}_2\text{O}$                                           | A  | 1980-082  | Australia          | <i>Mineralogical Magazine</i> <b>50</b> (1986), 295                                                                                    | <i>Powder Diffraction</i> <b>34</b> (2019), 21                 |
| Mooreite           | $\text{Mg}_{15}(\text{SO}_4)_2(\text{OH})_{26} \cdot 8\text{H}_2\text{O}$                             | G  | 1929      | USA                | <i>American Mineralogist</i> <b>14</b> (1929), 165                                                                                     | <i>Acta Crystallographica</i> <b>B36</b> (1980), 1304          |
| Moorhouseite       | $\text{Co}(\text{SO}_4)(\text{H}_2\text{O})_6$                                                        | A  | 1963-008  | Canada             | <i>Canadian Mineralogist</i> <b>8</b> (1965), 166                                                                                      | <i>Acta Crystallographica</i> <b>C44</b> (1988), 599           |
| Mopungite          | $\text{NaSb}^{5+}(\text{OH})_6$                                                                       | A  | 1982-020  | USA                | <i>Mineralogical Record</i> <b>16</b> (1985): 73                                                                                       | <i>Mineralogy and Petrology</i> <b>109</b> (2015), 431         |
| Moraesite          | $\text{Be}_2(\text{PO}_4)(\text{OH}) \cdot 4\text{H}_2\text{O}$                                       | G  | 1953      | Brazil             | <i>American Mineralogist</i> <b>38</b> (1953), 1126                                                                                    | <i>Zeitschrift für Kristallographie</i> <b>201</b> (1992), 253 |
| Moragite           | $\text{Ca}_3\text{TiSi}_2(\text{Al}_2\text{Si})\text{O}_{14}$                                         | A  | 2023-088  | Israel             | CNMNC Newsletter 77 - <i>Mineralogical Magazine</i> <b>88</b> (2024), 203; <i>European Journal of Mineralogy</i> <b>36</b> (2024), 165 |                                                                |
| Moraskoite         | $\text{Na}_2\text{Mg}(\text{PO}_4)\text{F}$                                                           | A  | 2013-084  | Poland (meteorite) | <i>Mineralogical Magazine</i> <b>79</b> (2015), 387                                                                                    |                                                                |

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|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|----|-----------|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|
| Mordenite           | $(\text{Na}_2, \text{Ca}, \text{K}_2)_4(\text{Al}_8\text{Si}_{40})\text{O}_{96} \cdot 28\text{H}_2\text{O}$                                         | A  | 1997 s.p. | Canada                           | <i>Journal of the Chemical Society</i> <b>17</b> (1864), 100                                                                           | <i>European Journal of Mineralogy</i> <b>15</b> (2003), 485    |
| Moreauite           | $\text{Al}_3(\text{UO}_2)(\text{PO}_4)_3(\text{OH})_2 \cdot 13\text{H}_2\text{O}$                                                                   | A  | 1984-010  | Democratic Republic of the Congo | <i>Bulletin de Minéralogie</i> <b>108</b> (1985), 9                                                                                    |                                                                |
| Morelandite         | $\text{Ca}_2\text{Ba}_3(\text{AsO}_4)_3\text{Cl}$                                                                                                   | A  | 1977-035  | Sweden                           | <i>Canadian Mineralogist</i> <b>16</b> (1978), 601                                                                                     | <i>European Journal of Mineralogy</i> <b>22</b> (2010), 163    |
| Morenosite          | $\text{Ni}(\text{SO}_4)(\text{H}_2\text{O})_6 \cdot \text{H}_2\text{O}$                                                                             | G  | 1851      | Spain                            | <i>Revista Minera</i> <b>2</b> (1851), 175                                                                                             | <i>Acta Crystallographica</i> <b>B53</b> (1997), 325           |
| Morimotoite         | $\text{Ca}_3(\text{TiFe}^{2+})(\text{SiO}_4)_3$                                                                                                     | A  | 1992-017  | Japan                            | <i>Mineralogical Magazine</i> <b>59</b> (1995), 115                                                                                    | <i>Powder Diffraction</i> <b>29</b> (2014), 325                |
| Morinite            | $\text{NaCa}_2\text{Al}_2(\text{PO}_4)_2(\text{OH})\text{F}_4 \cdot 2\text{H}_2\text{O}$                                                            | A  | 1967 s.p. | France                           | <i>Bulletin de la Société Française de Minéralogie</i> <b>14</b> (1891), 187                                                           | <i>Canadian Mineralogist</i> <b>17</b> (1979), 93              |
| Morleyite           | $\text{Ag}_2\text{CuPb}_{25}\text{Sb}_{24}\text{As}_4\text{S}_{68.5}$                                                                               | A  | 2024-076  | Canada                           | CNMNC Newsletter 84 - <i>Mineralogical Magazine</i> <b>89</b> (2025), 298; <i>European Journal of Mineralogy</i> <b>37</b> (2025), 249 |                                                                |
| Morningstarite      | $\text{Na}(\text{W}_{2.67}\text{Fe}_{0.33}^{3+})\text{O}_9 \cdot \text{H}_2\text{O}$                                                                | A  | 2024-081  | Australia                        | CNMNC Newsletter 84 - <i>Mineralogical Magazine</i> <b>89</b> (2025), 298; <i>European Journal of Mineralogy</i> <b>37</b> (2025), 249 |                                                                |
| Morozeviczite       | $\text{Pb}_3\text{Ge}_{1-x}\text{S}_4$                                                                                                              | A  | 1974-036  | Poland                           | <i>Rudy i Metale Niezestazne</i> <b>20</b> (1975), 288                                                                                 |                                                                |
| Morrisonite         | $\text{Ca}_{11}(\text{H}_2\text{O})_{78}(\text{As}^{3+}\text{V}^{4+}_2\text{V}^{5+}_{10}\text{As}^{5+}_6\text{O}_{51})_2$                           | A  | 2014-088  | USA                              | <i>Canadian Mineralogist</i> <b>54</b> (2016), 145                                                                                     |                                                                |
| Mosandrite-(Ce)     | $\text{Ca}_2(\text{CaCe})[(\text{H}_2\text{O})_2\text{Ca}_{0.5}\square_{0.5}]\text{Ti}(\text{Si}_2\text{O}_7)_2(\text{OH})_2(\text{H}_2\text{O})_2$ | Rd | 2016 s.p. | Norway                           | <i>Jahres-Bericht über die Fortschritte der Chemie und Mineralogie</i> <b>21</b> (1842), 178                                           | <i>Mineralogical Magazine</i> <b>77</b> (2013), 2753           |
| Moschelite          | Hgl                                                                                                                                                 | A  | 1987-038  | Germany                          | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1989), 524                                                                          | <i>Acta Crystallographica</i> <b>E68</b> (2012), i11           |
| Moschellandsbergite | $\text{Ag}_2\text{Hg}_3$                                                                                                                            | G  | 1938      | Germany                          | <i>American Mineralogist</i> <b>23</b> (1938), 761                                                                                     | <i>European Journal of Mineralogy</i> <b>5</b> (1993), 903     |
| Mosesite            | $(\text{Hg}_2\text{N})\text{Cl}$                                                                                                                    | G  | 1910      | USA                              | <i>American Journal of Science</i> <b>30</b> (1910), 202                                                                               | <i>American Mineralogist</i> <b>38</b> (1953), 1225            |
| Moskvinit-(Y)       | $\text{Na}_2\text{KYSi}_6\text{O}_{15}$                                                                                                             | A  | 2002-031  | Tajikistan                       | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>132(6)</b> (2003), 15                                                  | <i>Mineralogical Magazine</i> <b>80</b> (2016), 31             |
| Mössbauerite        | $\text{Fe}^{3+}_6\text{O}_4(\text{OH})_8(\text{CO}_3) \cdot 3\text{H}_2\text{O}$                                                                    | A  | 2012-049  | France                           | <i>Mineralogical Magazine</i> <b>78</b> (2014), 447                                                                                    |                                                                |
| Mottanaite-(Ce)     | $\text{Ca}_4\text{Ce}_2\text{Al}(\text{Be}_{1.5}\square_{0.5})[\text{B}_4\text{Si}_4\text{O}_{22}]\text{O}_2$                                       | Rd | 2001-020  | Italy                            | <i>American Mineralogist</i> <b>87</b> (2002), 739                                                                                     | <i>European Journal of Mineralogy</i> <b>31</b> (2019), 799    |
| Mottramite          | $\text{PbCu}(\text{VO}_4)(\text{OH})$                                                                                                               | G  | 1876      | United Kingdom                   | <i>Proceedings of the Royal Society of London</i> <b>25</b> (1876), 109                                                                | <i>Canadian Mineralogist</i> <b>33</b> (1995), 1119            |
| Motukoreaite        | $\text{Mg}_6\text{Al}_3(\text{OH})_{18}[\text{Na}(\text{H}_2\text{O})_6](\text{SO}_4)_2 \cdot 6\text{H}_2\text{O}$                                  | Q  | 1976-033  | New Zealand                      | <i>Mineralogical Magazine</i> <b>41</b> (1977), 389                                                                                    | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1986), 263  |
| Mounanaite          | $\text{PbFe}^{3+}_2(\text{VO}_4)_2(\text{OH})_2$                                                                                                    | A  | 1968-031  | Gabon                            | <i>Bulletin de la Société Française de Minéralogie et de Cristallographie</i> <b>92</b> (1969), 196                                    | <i>European Journal of Mineralogy</i> <b>10</b> (1998), 179    |
| Mountainite         | $\text{KNa}_2\text{Ca}_2[\text{Si}_8\text{O}_{19}(\text{OH})] \cdot 6\text{H}_2\text{O}$                                                            | G  | 1957      | South Africa                     | <i>Mineralogical Magazine</i> <b>31</b> (1957), 611                                                                                    | <i>Zeitschrift für Kristallographie</i> <b>224</b> (2009), 389 |
| Mountkeithite       | $(\text{Mg}_{1-x}\text{Fe}^{3+}_x)(\text{SO}_4)_{x/2}(\text{OH})_2 \cdot n\text{H}_2\text{O}$ ( $x < 0.5$ , $n > 3x/2$ )                            | A  | 1980-038  | Australia                        | <i>Mineralogical Magazine</i> <b>44</b> (1981), 345                                                                                    |                                                                |
| Mourite             | $(\text{UO}_2)(\text{Mo}^{6+})_5\text{O}_{16} \cdot 5\text{H}_2\text{O}$                                                                            | A  | 1967 s.p. | Kazakhstan                       | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>91</b> (1962), 67                                                        | <i>Geokhimiya</i> <b>10</b> (1980), 1557                       |
| Moxuanxueite        | $\text{NaCa}_6\text{Zr}(\text{Si}_2\text{O}_7)_2\text{OF}_3$                                                                                        | Rd | 2022 s.p. | China                            | <i>American Mineralogist</i> <b>110</b> (2025), 1527                                                                                   |                                                                |
| Moydite-(Y)         | $\text{YB}(\text{OH})_4(\text{CO}_3)$                                                                                                               | Rn | 1987 s.p. | Canada                           | <i>Canadian Mineralogist</i> <b>24</b> (1986), 665                                                                                     | <i>Canadian Mineralogist</i> <b>24</b> (1986), 675             |

|                  |                                                                                                                                                            |    |           |                                  |                                                                                   |                                                                            |
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| Mozartite        | $\text{CaMn}^{3+}(\text{SiO}_4)(\text{OH})$                                                                                                                | A  | 1991-016  | Italy                            | <i>Canadian Mineralogist</i> <b>31</b> (1993), 331                                | <i>American Mineralogist</i> <b>82</b> (1997), 841                         |
| Mozgovaite       | $\text{PbBi}_4\text{S}_7$                                                                                                                                  | A  | 1998-060  | Italy                            | <i>Canadian Mineralogist</i> <b>37</b> (1999), 1499                               |                                                                            |
| Mpororoite       | $\text{Al}_2\text{O}(\text{WO}_4)_2 \cdot 6\text{H}_2\text{O}$                                                                                             | A  | 1970-037  | Uganda                           | <i>Bulletin of the Geological Society of Finland</i> <b>44</b> (1972), 107        | <i>Mineralogical Magazine</i> <b>48</b> (1984), 397                        |
| Mrázekite        | $\text{Bi}_2\text{Cu}_3(\text{PO}_4)_2\text{O}_2(\text{OH})_2 \cdot 2\text{H}_2\text{O}$                                                                   | A  | 1990-045  | Slovakia                         | <i>Canadian Mineralogist</i> <b>30</b> (1992), 215                                | <i>Canadian Mineralogist</i> <b>32</b> (1994), 365                         |
| Mroseite         | $\text{CaTe}^{4+}\text{O}_2(\text{CO}_3)$                                                                                                                  | A  | 1974-032  | Mexico                           | <i>Canadian Mineralogist</i> <b>13</b> (1975), 286                                | <i>Canadian Mineralogist</i> <b>13</b> (1975), 383                         |
| Mückeite         | $\text{CuNiBiS}_3$                                                                                                                                         | A  | 1988-018  | Germany                          | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1989), 193                     | <i>Acta Crystallographica</i> <b>C46</b> (1990), 127                       |
| Muirite          | $\text{Ba}_{10}\text{Ca}_2\text{Mn}^{2+}\text{TiSi}_{10}\text{O}_{30}(\text{OH},\text{Cl},\text{F})_{10}$                                                  | A  | 1964-013  | USA                              | <i>American Mineralogist</i> <b>50</b> (1965), 1314                               | <i>Doklady Akademii Nauk SSSR</i> <b>221</b> (1975), 343                   |
| Mukhinitite      | $\text{Ca}_2(\text{Al}_2\text{V}^{3+})(\text{Si}_2\text{O}_7)(\text{SiO}_4)\text{O}(\text{OH})$                                                            | A  | 1968-035  | Russia                           | <i>Doklady Akademii Nauk SSSR</i> <b>185</b> (1969), 1342                         | <i>Mineralogical Magazine</i> <b>86</b> (2022), 821                        |
| Müllerite        | $\text{Pb}_2\text{Fe}^{3+}(\text{Te}^{6+}\text{O}_6)\text{Cl}$                                                                                             | A  | 2019-060  | USA                              | <i>Canadian Mineralogist</i> <b>58</b> (2020), 413                                |                                                                            |
| Mullite          | $\text{Al}_{4+2x}\text{Si}_{2-2x}\text{O}_{10-x}$ ( $x \approx 0.4$ )                                                                                      | G  | 1924      | United Kingdom                   | <i>Journal of the Washington Academy of Sciences</i> <b>14</b> (1924), 183        | <i>European Journal of Mineralogy</i> <b>32</b> (2020), 235                |
| Mummeite         | $\text{Cu}_{0.58}\text{Ag}_{3.11}\text{Pb}_{1.10}\text{Bi}_{6.65}\text{S}_{13}$                                                                            | A  | 1986-025  | USA                              | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1992), 555                     | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1990), 193              |
| Munakataite      | $\text{Pb}_2\text{Cu}_2(\text{Se}^{4+}\text{O}_3)(\text{SO}_4)(\text{OH})_4$                                                                               | A  | 2007-012  | Japan                            | <i>Journal of Mineralogical and Petrological Sciences</i> <b>103</b> (2008), 327  | <i>Mineralogical Magazine</i> <b>74</b> (2010), 991                        |
| Mundite          | $\text{Al}(\text{UO}_2)_3(\text{PO}_4)_2(\text{OH})_3 \cdot 5.5\text{H}_2\text{O}$                                                                         | A  | 1980-075  | Democratic Republic of the Congo | <i>Bulletin de Minéralogie</i> <b>104</b> (1981), 669                             |                                                                            |
| Mundrabillaite   | $(\text{NH}_4)_2\text{Ca}(\text{PO}_3\text{OH})_2 \cdot \text{H}_2\text{O}$                                                                                | A  | 1978-058  | Australia                        | <i>Mineralogical Magazine</i> <b>47</b> (1983), 80                                |                                                                            |
| Munirite         | $\text{NaV}^{5+}\text{O}_3(\text{H}_2\text{O})_{1.9}$                                                                                                      | A  | 1982-038  | Pakistan                         | <i>Mineralogical Magazine</i> <b>47</b> (1983), 391                               | <i>Acta Chemica Scandinavica</i> <b>A31</b> (1977), 579                    |
| Muonionalustaite | $\text{Ni}_3(\text{OH})_4\text{Cl}_2 \cdot 4\text{H}_2\text{O}$                                                                                            | A  | 2020-010  | Sweden (meteorite)               | <i>GFF</i> <b>143</b> (2021), 1                                                   |                                                                            |
| Murakamiite      | $\text{Ca}_2\text{LiSi}_3\text{O}_8(\text{OH})$                                                                                                            | A  | 2016-066  | Japan                            | <i>European Journal of Mineralogy</i> <b>29</b> (2017), 1045                      | <i>European Journal of Mineralogy</i> <b>30</b> (2018), 451                |
| Murashkoite      | $\text{FeP}$                                                                                                                                               | A  | 2012-071  | Israel                           | <i>Mineralogy and Petrology</i> <b>113</b> (2019), 237                            |                                                                            |
| Murataite-(Y)    | $(\text{Y},\text{Na})_6\text{Zn}(\text{Zn},\text{Fe}^{3+})_4(\text{Ti},\text{Nb},\text{Na})_{12}\text{O}_{29}(\text{O},\text{F},\text{OH})_{10}\text{F}_4$ | A  | 1972-007  | USA                              | <i>American Mineralogist</i> <b>59</b> (1974), 172                                | <i>Canadian Mineralogist</i> <b>33</b> (1995), 1223                        |
| Murchisite       | $\text{Cr}_5\text{S}_6$                                                                                                                                    | A  | 2010-003  | Australia (meteorite)            | <i>American Mineralogist</i> <b>96</b> (2011), 1905                               |                                                                            |
| Murdochite       | $\text{Cu}_{12}\text{Pb}_2\text{O}_{15}\text{Cl}_2$                                                                                                        | G  | 1955      | USA                              | <i>American Mineralogist</i> <b>40</b> (1955), 905                                | <i>Acta Crystallographica</i> <b>C39</b> (1983), 1143                      |
| Murmanite        | $\text{Na}_2\text{Ti}_2\text{Na}_2\text{Ti}_2(\text{Si}_2\text{O}_7)_2\text{O}_4(\text{H}_2\text{O})_4$                                                    | Rd | 2016 s.p. | Russia                           | <i>Doklady Akademii Nauk SSSR</i> <b>52</b> (1930), 731                           | <i>European Journal of Mineralogy</i> <b>27</b> (2015), 535                |
| Murphyite        | $\text{Pb}(\text{Te}^{6+}\text{O}_4)$                                                                                                                      | A  | 2021-107  | USA                              | <i>Canadian Journal of Mineralogy and Petrology</i> <b>61</b> (2023), 401         |                                                                            |
| Murunskite       | $\text{K}_2(\text{Cu},\text{Fe})_4\text{S}_4$                                                                                                              | A  | 1980-064  | Russia                           | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>110</b> (1981), 468 | <i>Doklady Akademii Nauk, Earth Science Section</i> <b>424</b> (2009), 139 |
| Muscovite        | $\text{KAl}_2(\text{Si}_3\text{Al})\text{O}_{10}(\text{OH})_2$                                                                                             | A  | 1998 s.p. | unknown                          | A System of Mineralogy, 3rd ed. Putnam, New York (1850), 356                      | <i>Canadian Mineralogist</i> <b>57</b> (2019), 383                         |
| Museumite        | $[\text{Pb}_2(\text{Pb},\text{Sb})_2\text{S}_8][(\text{Te},\text{Au})_2]$                                                                                  | A  | 2003-039  | Romania                          | <i>European Journal of Mineralogy</i> <b>16</b> (2004), 835                       |                                                                            |
| Mushistonite     | $\text{Cu}^{2+}\text{Sn}^{4+}(\text{OH})_6$                                                                                                                | A  | 1982-068  | Tajikistan                       | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>113</b> (1984), 612 | <i>Journal of Solid State Chemistry</i> <b>17</b> (1976), 399              |

|                      |                                                                                                                              |    |           |                     |                                                                                                                                        |                                                                            |
|----------------------|------------------------------------------------------------------------------------------------------------------------------|----|-----------|---------------------|----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|
| Muskoxite            | $\text{Mg}_7\text{Fe}^{3+}_4(\text{OH})_{26} \cdot \text{H}_2\text{O}$                                                       | Q  | 1967-043  | Canada              | <i>American Mineralogist</i> <b>54</b> (1969), 684                                                                                     |                                                                            |
| Muthmannite          | $\text{AuAgTe}_2$                                                                                                            | G  | 1911      | Romania             | <i>Zeitschrift für Kristallographie</i> <b>49</b> (1911), 246                                                                          | <i>American Mineralogist</i> <b>89</b> (2004), 1505                        |
| Mutinaite            | $\text{Na}_3\text{Ca}_4\text{Al}_{11}\text{Si}_{85}\text{O}_{192} \cdot 60\text{H}_2\text{O}$                                | A  | 1996-025  | Antarctica          | <i>Zeolites</i> <b>19</b> (1997), 318                                                                                                  | <i>Zeolites</i> <b>19</b> (1997), 323                                      |
| Mutnovskite          | $\text{Pb}_2\text{AsS}_3(\text{I}, \text{Cl}, \text{Br})$                                                                    | A  | 2004-032  | Russia              | <i>American Mineralogist</i> <b>91</b> (2006), 21                                                                                      | <i>Journal of Solid State Chemistry</i> <b>181</b> (2008), 306             |
| Naalasilite          | $\text{NaAl}(\text{AsO}_3\text{OH})_2(\text{H}_2\text{O})$                                                                   | A  | 2023-027  | Chile               | <i>Mineralogical Magazine</i> <b>88</b> (2024), 155                                                                                    |                                                                            |
| Nabalamporphyllite   | $(\text{BaNa})\text{Ti}_2\text{Na}_3\text{Ti}(\text{Si}_2\text{O}_7)_2\text{O}_2(\text{OH})_2$                               | Rd | 2001-060  | Russia              | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>133(1)</b> (2004), 59                                                  | <i>Canadian Mineralogist</i> <b>46</b> (2008), 1323                        |
| Nabaphite            | $\text{NaBa}(\text{PO}_4)(\text{H}_2\text{O})_9$                                                                             | A  | 1981-058  | Russia              | <i>Doklady Akademii Nauk SSSR</i> <b>266</b> (1982), 707                                                                               | <i>Doklady Akademii Nauk SSSR</i> <b>266</b> (1982), 624                   |
| Nabateaite           | $\text{Fe}_2\text{P}_2\text{O}_7$                                                                                            | A  | 2021-026  | Israel              | CNMNC Newsletter 62 - <i>Mineralogical Magazine</i> <b>85</b> (2021), 634; <i>European Journal of Mineralogy</i> <b>33</b> (2021), 479 |                                                                            |
| Nabesite             | $\text{Na}_2\text{BeSi}_4\text{O}_{10}(\text{H}_2\text{O})_4$                                                                | A  | 2000-024  | Denmark (Greenland) | <i>Canadian Mineralogist</i> <b>40</b> (2002), 173                                                                                     | <i>American Mineralogist</i> <b>95</b> (2010), 519                         |
| Nabiasite            | $\text{BaMn}_9(\text{VO}_4)_6(\text{OH})_2$                                                                                  | A  | 1997-050  | France              | <i>European Journal of Mineralogy</i> <b>11</b> (1999), 879                                                                            |                                                                            |
| Nabimusait           | $\text{KCa}_{12}(\text{SiO}_4)_4(\text{SO}_4)_2\text{O}_2\text{F}$                                                           | A  | 2012-057  | Palestine           | <i>Mineralogical Magazine</i> <b>79</b> (2015), 1061                                                                                   |                                                                            |
| Nabokoite            | $\text{Cu}_7\text{Te}^{4+}\text{O}_4(\text{SO}_4)_5 \cdot \text{KCl}$                                                        | A  | 1985-013a | Russia              | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>116</b> (1987), 358                                                      | <i>Mineralogy and Petrology</i> <b>38</b> (1988), 291                      |
| Nacaphite            | $\text{Na}_2\text{Ca}(\text{PO}_4)\text{F}$                                                                                  | A  | 1979-026  | Russia              | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>109</b> (1980), 50                                                       | <i>Canadian Mineralogist</i> <b>45</b> (2007), 915                         |
| Nacarenioibsite-(Ce) | $\text{Ca}_2(\text{CaCe})\text{Na}_3\text{Nb}(\text{Si}_2\text{O}_7)_2(\text{OF})\text{F}_2$                                 | Rd | 1987-040  | Denmark (Greenland) | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1989), 84                                                                           | <i>Canadian Journal of Mineralogy and Petrology</i> <b>61</b> (2023), 1123 |
| Nacarenioibsite-(Nd) | $\text{Ca}_2(\text{CaNd})\text{Na}_3\text{Nb}(\text{Si}_2\text{O}_7)_2(\text{OF})\text{F}_2$                                 | A  | 2023-012  | Tajikistan          | <i>Canadian Journal of Mineralogy and Petrology</i> <b>63</b> (2025), 179                                                              |                                                                            |
| Nacarenioibsite-(Y)  | $\text{Ca}_2(\text{CaY})\text{Na}_3\text{Nb}(\text{Si}_2\text{O}_7)_2(\text{OF})\text{F}_2$                                  | A  | 2022-105  | Tajikistan          | <i>Canadian Journal of Mineralogy and Petrology</i> <b>61</b> (2023), 1123                                                             |                                                                            |
| Nacrite              | $\text{Al}_2\text{Si}_2\text{O}_5(\text{OH})_4$                                                                              | G  | 1807      | Germany             | Traité Élémentaire de Minéralogie. Crapelet, Paris (1807), 505                                                                         | <i>Crystallography Reports</i> <b>53</b> (2008), 76                        |
| Nadorite             | $\text{PbSb}^{3+}\text{O}_2\text{Cl}$                                                                                        | G  | 1870      | Algeria             | <i>Comptes Rendus Hebdomadaires des Séances de l'Académie des Sciences</i> <b>71</b> (1870), 237                                       | <i>Periodico di Mineralogia</i> <b>42</b> (1973), 335                      |
| Nafeasite            | $\text{NaFe}^{3+}(\text{AsO}_3\text{OH})_2(\text{H}_2\text{O})$                                                              | A  | 2021-103  | Chile               | <i>Mineralogical Magazine</i> <b>86</b> (2022), 883                                                                                    |                                                                            |
| Nafertisite          | $\text{Na}_3\text{Fe}^{2+}_{10}\text{Ti}_2(\text{Si}_6\text{O}_{17})_2\text{O}_2(\text{OH})_6\text{F}(\text{H}_2\text{O})_2$ | A  | 1994-007  | Russia              | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>124(6)</b> (1995), 101                                                 | <i>European Journal of Mineralogy</i> <b>26</b> (2014), 667                |
| Nagashimalite        | $\text{Ba}_4(\text{V}^{3+}, \text{Ti})_4(\text{O}, \text{OH})_2[\text{B}_2\text{Si}_8\text{O}_{27}]\text{Cl}$                | A  | 1977-045  | Japan               | <i>Mineralogical Journal</i> <b>10</b> (1980), 122                                                                                     | <i>Mineralogical Journal</i> <b>10</b> (1980), 131                         |
| Nagelschmidtite      | $\text{Ca}_7(\text{SiO}_4)_2(\text{PO}_4)_2$                                                                                 | A  | 1987 s.p. | Israel              | <i>Geological Survey of Israel, Bulletin</i> <b>70</b> (1977), 1                                                                       | <i>Journal of the American Ceramic Society</i> <b>98</b> (2015), 3956      |
| Nagyágite            | $[\text{Pb}_3(\text{Pb}, \text{Sb})_3\text{S}_8](\text{Au}, \text{Te})_3$                                                    | G  | 1845      | Romania             | Handbuch der Bestimmenden Mineralogie. Braumüller and Seidel, Wien (1845), 563                                                         | <i>American Mineralogist</i> <b>84</b> (1999), 669                         |
| Nahcolite            | $\text{NaH}(\text{CO}_3)$                                                                                                    | G  | 1929      | Italy               | <i>Mineralogical Magazine</i> <b>22</b> (1929), 53                                                                                     | <i>Zeitschrift für Kristallographie</i> <b>224</b> (2009), 144             |

|                  |                                                                                                                             |   |            |                     |                                                                                                                                            |                                                                                     |
|------------------|-----------------------------------------------------------------------------------------------------------------------------|---|------------|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Nahpoite         | $\text{Na}_2(\text{PO}_3\text{OH})$                                                                                         | A | 1981-002   | Canada              | <i>Canadian Mineralogist</i> <b>19</b> (1981), 373                                                                                         | <i>Journal of the American Ceramic Society</i> <b>117</b> (1995), 5141              |
| Nakauriite       | $\text{Cu}_8(\text{SO}_4)_4(\text{CO}_3)(\text{OH})_6 \cdot 48\text{H}_2\text{O}$                                           | A | 1976-016   | Japan               | <i>Journal of the Japanese Association of Mineralogists, Petrologists and Economic Geologists</i> <b>71</b> (1976), 183                    |                                                                                     |
| Nakkaalaaqite    | $\text{K}_2[\text{Na}_3\text{Ca}]\text{LiCa}_2\text{Ti}_2\text{Be}_4\text{Si}_{12}\text{O}_{38}$                            | A | 2020-059   | Denmark (Greenland) | CNMNC Newsletter 58 - <i>Mineralogical Magazine</i> <b>84</b> (2020), 971; <i>European Journal of Mineralogy</i> <b>32</b> (2020), 645     |                                                                                     |
| Naldrettite      | $\text{Pd}_2\text{Sb}$                                                                                                      | A | 2004-007   | Canada              | <i>Mineralogical Magazine</i> <b>69</b> (2005), 89                                                                                         | <i>Canadian Mineralogist</i> <b>59</b> (2021), 1801                                 |
| Nalipoite        | $\text{NaLi}_2(\text{PO}_4)$                                                                                                | A | 1990-030   | Canada              | <i>Canadian Mineralogist</i> <b>29</b> (1991), 565                                                                                         | <i>Canadian Mineralogist</i> <b>29</b> (1991), 569                                  |
| Nalivkinite      | $\text{Li}_2\text{NaFe}^{2+}_7\text{Ti}_2(\text{Si}_4\text{O}_{12})_2\text{O}_2(\text{OH})_4\text{F}(\text{H}_2\text{O})_2$ | A | 2006-038   | Tajikistan          | <i>Canadian Mineralogist</i> <b>46</b> (2008), 651                                                                                         | <i>Canadian Mineralogist</i> <b>54</b> (2016), 33                                   |
| Namansilite      | $\text{NaMn}^{3+}\text{Si}_2\text{O}_6$                                                                                     | A | 1989-026   | Russia              | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>121(1)</b> (1992), 89                                                      | <i>Mineralogical Magazine</i> <b>57</b> (1993), 533                                 |
| Nambulite        | $\text{LiMn}^{2+}_4\text{Si}_5\text{O}_{14}(\text{OH})$                                                                     | A | 1971-032   | Japan               | <i>Mineralogical Journal</i> <b>7</b> (1972), 29                                                                                           | <i>American Mineralogist</i> <b>99</b> (2014), 1462                                 |
| Namibite         | $\text{Cu}(\text{BiO})_2(\text{VO}_4)(\text{OH})$                                                                           | A | 1981-024   | Namibia             | <i>Schweizerische Mineralogische und Petrographische Mitteilungen</i> <b>61</b> (1981), 7                                                  | <i>American Mineralogist</i> <b>85</b> (2000), 1298                                 |
| Namuwite         | $\text{Zn}_4(\text{SO}_4)(\text{OH})_6(\text{H}_2\text{O}) \cdot 3\text{H}_2\text{O}$                                       | A | 1981-020   | United Kingdom      | <i>Mineralogical Magazine</i> <b>46</b> (1982), 51                                                                                         | <i>American Mineralogist</i> <b>81</b> (1996), 238                                  |
| Nancyrossite     | $\text{Fe}^{3+}\text{Ge}(\text{OH})_5\text{O}$                                                                              | A | 2024-033   | Namibia             | <i>Mineralogical Magazine</i> <b>89</b> (2025), 751                                                                                        |                                                                                     |
| Nanlingite       | $\text{Na}(\text{Ca}_5\text{Li})\text{Mg}_{12}(\text{AsO}_3)_2[\text{Fe}^{2+}(\text{AsO}_3)_6]\text{F}_{14}$                | A | 1985-xxx ? | China               | <i>Geochimica</i> <b>2</b> (1976), 107                                                                                                     | <i>European Journal of Mineralogy</i> <b>23</b> (2011), 63                          |
| Nannoniite       | $\text{Al}_2(\text{OH})_5\text{F}$                                                                                          | A | 2024-010   | Italy               | <i>European Journal of Mineralogy</i> <b>36</b> (2024), 1011                                                                               |                                                                                     |
| Nanpingite       | $\text{CsAl}_2(\text{Si}_3\text{Al})\text{O}_{10}(\text{OH})_2$                                                             | A | 1987-006   | China               | <i>Acta Petrologica et Mineralogica</i> <b>7</b> (1988), 49                                                                                | <i>American Mineralogist</i> <b>81</b> (1996), 105                                  |
| Nantokite        | $\text{CuCl}$                                                                                                               | G | 1867       | Chile               | <i>Mineralojía de Chile, Imprenta Nacional, Santiago</i> (1867), 49                                                                        | <i>Physical Review B</i> <b>50</b> (1994), 5868                                     |
| Napoliite        | $\text{Pb}_2\text{OFCI}$                                                                                                    | A | 2022-073   | Italy               | <i>Mineralogical Magazine</i> <b>87</b> (2023), 711                                                                                        |                                                                                     |
| Naquite          | $\text{FeSi}$                                                                                                               | A | 2010-010   | China               | <i>Acta Geologica Sinica</i> <b>86</b> (2012), 553                                                                                         |                                                                                     |
| Narsarsukite     | $\text{Na}_2(\text{Ti}, \text{Fe}^{3+})\text{Si}_4(\text{O}, \text{F})_{11}$                                                | A | 1967 s.p.  | Denmark (Greenland) | <i>Meddelelser om Grønland</i> <b>24</b> (1901), 154                                                                                       | <i>Mineralogical Magazine</i> <b>87</b> (2023), 896                                 |
| Nashite          | $\text{Na}_3\text{Ca}_2(\text{H}_2\text{O})_{22}[(\text{V}^{4+}\text{V}^{5+}_9)\text{O}_{28}] \cdot 2\text{H}_2\text{O}$    | A | 2011-105   | USA                 | <i>Canadian Mineralogist</i> <b>51</b> (2013), 27                                                                                          |                                                                                     |
| Nasinite         | $\text{Na}_2\text{B}_5\text{O}_8(\text{OH})(\text{H}_2\text{O})_2$                                                          | A | 1967 s.p.  | Italy               | <i>Accademia Nazionale dei Lincei, Rendiconti della Classe di Scienze Fisiche, Matematiche e Naturali, Serie VIII</i> <b>30</b> (1961), 74 | <i>Inorganic Chemistry</i> <b>48</b> (2009), 7800                                   |
| Nasledovite      | $\text{PbMn}^{2+}_3\text{Al}_4\text{O}_5(\text{SO}_4)(\text{CO}_3)_4 \cdot 5\text{H}_2\text{O}$                             | Q | 1958       | Tajikistan          | <i>Doklady Akademii Nauk Uzbekistan SSR</i> <b>5</b> (1958), 13                                                                            |                                                                                     |
| Nasonite         | $\text{Ca}_4\text{Pb}_6(\text{Si}_2\text{O}_7)_3\text{Cl}_2$                                                                | G | 1899       | USA                 | <i>American Journal of Science</i> <b>8</b> (1899), 339                                                                                    | <i>American Mineralogist</i> <b>56</b> (1971), 1174                                 |
| Nastrophite      | $\text{NaSr}(\text{PO}_4)(\text{H}_2\text{O})_9$                                                                            | A | 1980-051   | Russia              | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>110</b> (1981), 604                                                          | <i>Soviet Physics Doklady</i> <b>26</b> (1981), 1023                                |
| Nataliakulikite  | $\text{Ca}_4\text{Ti}_2(\text{Fe}^{3+}, \text{Fe}^{2+})(\text{Si}, \text{Fe}^{3+}, \text{Al})\text{O}_{11}$                 | A | 2018-061   | Israel              | <i>Minerals</i> <b>9</b> (2019), 700                                                                                                       |                                                                                     |
| Nataliyamalikite | TII                                                                                                                         | A | 2016-022   | Russia              | <i>American Mineralogist</i> <b>102</b> (2017), 1736                                                                                       | <i>Zapiski Rossiyskogo Mineralogicheskogo Obshchestva</i> <b>154(1)</b> (2025), 118 |

|                       |                                                                                                                    |    |           |            |                                                                                             |                                                                           |
|-----------------------|--------------------------------------------------------------------------------------------------------------------|----|-----------|------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|
| Natalyite             | $\text{NaV}^{3+}\text{Si}_2\text{O}_6$                                                                             | A  | 1984-053  | Russia     | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>114</b> (1985), 630           | <i>American Mineralogist</i> <b>87</b> (2002), 709                        |
| Natanite              | $\text{Fe}^{2+}\text{Sn}^{4+}(\text{OH})_6$                                                                        | A  | 1980-028  | Tajikistan | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>110</b> (1981), 492           | <i>Acta Crystallographica</i> <b>13</b> (1960), 601                       |
| Natisite              | $\text{Na}_2\text{TiO}(\text{SiO}_4)$                                                                              | A  | 1974-035  | Russia     | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>104</b> (1975), 314           | <i>Journal of Chemical Crystallography</i> <b>43</b> (2013), 443          |
| Natrite               | $\text{Na}_2(\text{CO}_3)$                                                                                         | A  | 1981-005  | Russia     | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>111</b> (1982), 220           | <i>American Mineralogist</i> <b>95</b> (2010), 574                        |
| Natroalunite          | $\text{NaAl}_3(\text{SO}_4)_2(\text{OH})_6$                                                                        | Rd | 1987 s.p. | USA        | <i>American Journal of Science</i> <b>164</b> (1902), 211                                   | <i>Neues Jahrbuch für Mineralogie Abhandlungen</i> <b>185</b> (2009), 313 |
| Natroaphthitalite     | $\text{KNa}_3(\text{SO}_4)_2$                                                                                      | A  | 2018-091  | Russia     | <i>Canadian Mineralogist</i> <b>58</b> (2020), 167                                          |                                                                           |
| Natroboltwoodite      | $\text{Na}(\text{UO}_2)(\text{SiO}_3\text{OH})(\text{H}_2\text{O})$                                                | Rn | 2007 s.p. | Kazakhstan | <i>Doklady Akademii Nauk SSSR</i> <b>221</b> (1975), 195                                    | <i>Crystal Growth &amp; Design</i> <b>22</b> (2022), 1202                 |
| Natrochalcite         | $\text{NaCu}_2(\text{SO}_4)_2(\text{OH})(\text{H}_2\text{O})$                                                      | G  | 1908      | Chile      | <i>American Journal of Science</i> <b>176</b> (1908), 342                                   | <i>Austrian Journal of Earth Sciences</i> <b>117</b> (2024), 45           |
| Natrodufrénite        | $\text{NaFe}^{3+}\text{Fe}^{3+}_5(\text{PO}_4)_4\text{O}(\text{OH})_5(\text{H}_2\text{O})_2$                       | Rd | 2026 s.p. | France     | <i>Bulletin de Minéralogie</i> <b>105</b> (1982), 321                                       |                                                                           |
| Natroglaucocerinite   | $\text{Zn}_6\text{Al}_3(\text{OH})_{18}[\text{Na}(\text{H}_2\text{O})_6](\text{SO}_4)_2 \cdot 6\text{H}_2\text{O}$ | Q  | 1995-025  | Greece     | nyp                                                                                         | <i>Zeitschrift für Kristallographie, suppl.</i> <b>9</b> (1995), 252      |
| Natrojarosite         | $\text{NaFe}^{3+}_3(\text{SO}_4)_2(\text{OH})_6$                                                                   | Rd | 1987 s.p. | USA        | <i>American Journal of Science</i> <b>14</b> (1902), 211                                    | <i>Mineralogical Magazine</i> <b>75</b> (2011), 2775                      |
| Natrolemonite         | $\text{Na}_4\text{Zr}_2\text{Si}_{10}\text{O}_{26}(\text{H}_2\text{O})_7 \cdot 2\text{H}_2\text{O}$                | A  | 1996-063  | Canada     | <i>Canadian Mineralogist</i> <b>39</b> (2001), 1295                                         |                                                                           |
| Natrolite             | $\text{Na}_2(\text{Si}_3\text{Al}_2)\text{O}_{10} \cdot 2\text{H}_2\text{O}$                                       | A  | 1997 s.p. | Germany    | <i>Gesellschaft Naturforschender Freunde zu Berlin, Neue Schriften</i> <b>4</b> (1803), 243 | <i>Crystallography Reports</i> <b>65</b> (2020), 862                      |
| Natromarkeyite        | $\text{Na}_2\text{Ca}_8(\text{UO}_2)_4(\text{CO}_3)_{13}(\text{H}_2\text{O})_{24} \cdot 3\text{H}_2\text{O}$       | A  | 2018-152  | USA        | <i>Mineralogical Magazine</i> <b>84</b> (2020), 753                                         |                                                                           |
| Natromelansonite      | $\text{Na}_3\text{Zr}(\text{Si}_7\text{AlO}_{19})(\text{H}_2\text{O})_{4-5}$                                       | A  | 2023-076  | Canada     | <i>Mineralogical Magazine</i> <b>88</b> (2024), 195                                         | <i>Mineralogical Magazine</i> <b>88</b> (2024), 623                       |
| Natromolybdite        | $\text{Na}_2\text{MoO}_4(\text{H}_2\text{O})_2$                                                                    | A  | 2022-130  | Russia     | <i>Mineralogical Magazine</i> <b>89</b> (2025), 700                                         |                                                                           |
| Natron                | $\text{Na}_2(\text{CO}_3)(\text{H}_2\text{O})_{10}$                                                                | A  | 1967 s.p. | unknown    | Mineralogia, eller Mineralriktet. Lars Salvius, Stockholm (1747), 174                       | <i>Mineralogy and Petrology</i> <b>77</b> (2003), 177                     |
| Natronambulite        | $\text{NaMn}^{2+}_4\text{Si}_5\text{O}_{14}(\text{OH})$                                                            | A  | 1981-034  | Japan      | <i>Mineralogical Journal</i> <b>12</b> (1985), 332                                          | <i>American Mineralogist</i> <b>99</b> (2014), 1462                       |
| Natroniobite          | $\text{NaNbO}_3$                                                                                                   | Q  | 1960      | Russia     | <i>Vses. Nauchno-Issled. Geol. Inst.</i> (1960) 114                                         |                                                                           |
| Natropalermoite       | $\text{Na}_2\text{SrAl}_4(\text{PO}_4)_4(\text{OH})_4$                                                             | A  | 2013-118  | USA        | <i>Mineralogical Magazine</i> <b>81</b> (2017), 833                                         |                                                                           |
| Natropharmacoalumite  | $\text{NaAl}_4(\text{AsO}_4)_3(\text{OH})_4 \cdot 4\text{H}_2\text{O}$                                             | A  | 2010-009  | Spain      | <i>Mineralogical Magazine</i> <b>74</b> (2010), 929                                         |                                                                           |
| Natropharmacosiderite | $\text{NaFe}^{3+}_4(\text{AsO}_4)_3(\text{OH})_4 \cdot 4\text{H}_2\text{O}$                                        | Rn | 1983-025  | Australia  | <i>Mineralogical Record</i> <b>16</b> (1985), 121                                           | <i>Canadian Mineralogist</i> <b>48</b> (2010), 1477                       |
| Natrophilite          | $\text{NaMn}^{2+}(\text{PO}_4)$                                                                                    | G  | 1890      | USA        | <i>American Journal of Science</i> <b>39</b> (1890), 201                                    | <i>Materials Research Bulletin</i> <b>126</b> (2020), 110835              |
| Natrophosphate        | $\text{Na}_7(\text{PO}_4)_2\text{F}(\text{H}_2\text{O})_{19}$                                                      | A  | 1971-041  | Russia     | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>101</b> (1972), 80            | <i>Minerals</i> <b>11</b> (2021), 186                                     |
| Natrosilite           | $\text{Na}_2\text{Si}_2\text{O}_5$                                                                                 | A  | 1974-043  | Russia     | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>104</b> (1975), 317           | <i>Acta Crystallographica</i> <b>B24</b> (1968), 1077                     |
| Natrosulfatourea      | $\text{Na}_2(\text{SO}_4)[\text{CO}(\text{NH}_2)_2]$                                                               | A  | 2019-134  | USA        | <i>Canadian Mineralogist</i> <b>59</b> (2021), 603                                          |                                                                           |

|                  |                                                                                                                                                                           |    |           |                             |                                                                                                                                        |                                                                                    |
|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----------|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| Natrotantite     | $\text{Na}_2\text{Ta}_4\text{O}_{11}$                                                                                                                                     | A  | 1980-026  | Russia                      | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>110</b> (1981), 338                                                      | <i>Bulletin de Minéralogie</i> <b>108</b> (1985), 541                              |
| Natrotitanite    | $(\text{Na}_{0.5}\text{Y}_{0.5})\text{TiO}(\text{SiO}_4)$                                                                                                                 | A  | 2011-033  | Kazakhstan                  | <i>Mineralogical Magazine</i> <b>76</b> (2012), 37                                                                                     |                                                                                    |
| Natouranospinite | $\text{Na}_2(\text{UO}_2)_2(\text{AsO}_4)_2 \cdot 5\text{H}_2\text{O}$                                                                                                    | Rn | 2007 s.p. | Kazakhstan                  | <i>Doklady Akademii Nauk SSSR</i> <b>114</b> (1957), 634                                                                               | <i>Canadian Mineralogist</i> <b>42</b> (2004), 973                                 |
| Natrowalentaite  | $[\text{Fe}^{3+}_{0.5}\text{Na}_{0.5}(\text{H}_2\text{O})_6][\text{NaAs}^{3+}_2(\text{Fe}^{3+}_{2.33}\text{W}^{6+}_{0.67})(\text{PO}_4)_2\text{O}_7]$                     | A  | 2018-032a | Australia                   | <i>Australian Journal of Mineralogy</i> <b>20</b> (2019), 7                                                                            |                                                                                    |
| Natroxalate      | $\text{Na}_2(\text{C}_2\text{O}_4)$                                                                                                                                       | A  | 1994-053  | Russia                      | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>125(1)</b> (1996), 126                                                 | <i>Zeitschrift für Kristallographie</i> <b>221</b> (2006), 186                     |
| Natrozippeite    | $\text{Na}_5(\text{UO}_2)_8(\text{SO}_4)_4\text{O}_5(\text{OH})_3(\text{H}_2\text{O})_{12}$                                                                               | A  | 1971-004  | USA                         | <i>Canadian Mineralogist</i> <b>14</b> (1976), 429                                                                                     | <i>Canadian Mineralogist</i> <b>41</b> (2003), 687                                 |
| Naujakasite      | $\text{Na}_6\text{Fe}^{2+}\text{Al}_4\text{Si}_8\text{O}_{26}$                                                                                                            | G  | 1933      | Denmark (Greenland)         | <i>Meddelelser om Grønland</i> <b>92(9)</b> (1933), 1                                                                                  | <i>Grønlands Geologiske Undersøgelse Bulletin</i> <b>116</b> (1975), 11            |
| Naumannite       | $\text{Ag}_2\text{Se}$                                                                                                                                                    | G  | 1828      | Germany                     | <i>Annalen der Physik und Chemie</i> <b>14</b> (1828), 471                                                                             | <i>Acta Crystallographica</i> <b>E67</b> (2011), i45                               |
| Navajoite        | $(\text{V}^{5+}, \text{Fe}^{3+})_{10}\text{O}_{24} \cdot 12\text{H}_2\text{O}$                                                                                            | G  | 1954      | USA                         | <i>American Mineralogist</i> <b>40</b> (1955), 207                                                                                     | <i>American Mineralogist</i> <b>75</b> (1990), 508                                 |
| Navrotskyite     | $\text{K}_2\text{Na}_{10}(\text{UO}_2)_3(\text{SO}_4)_9 \cdot 2\text{H}_2\text{O}$                                                                                        | A  | 2019-026  | USA                         | <i>Journal of Geosciences</i> <b>68</b> (2023), 249                                                                                    |                                                                                    |
| Nazarchukite     | $\text{Ca}_2\text{NiFe}^{3+}_2(\text{PO}_4)_4$                                                                                                                            | A  | 2022-005  | Jordan                      | CNMNC Newsletter 67 - <i>Mineralogical Magazine</i> <b>86</b> (2022), 849; <i>European Journal of Mineralogy</i> <b>34</b> (2022), 359 |                                                                                    |
| Nazarovite       | $\text{Ni}_{12}\text{P}_5$                                                                                                                                                | A  | 2019-013  | Israel / Russia (meteorite) | <i>American Mineralogist</i> <b>107</b> (2022), 1946                                                                                   |                                                                                    |
| Nchwaningite     | $\text{Mn}_2\text{SiO}_3(\text{OH})_2(\text{H}_2\text{O})$                                                                                                                | A  | 1994-002  | South Africa                | <i>American Mineralogist</i> <b>80</b> (1995), 377                                                                                     |                                                                                    |
| Nealite          | $\text{Pb}_4\text{Fe}(\text{AsO}_3)_2\text{Cl}_4(\text{H}_2\text{O})_2$                                                                                                   | A  | 1979-050  | Greece                      | <i>Mineralogical Record</i> <b>11</b> (1980), 299                                                                                      | <i>Mineralogy and Petrology</i> <b>48</b> (1993), 193                              |
| Nechelyustovite  | $(\text{Na}\square)\square_2\text{Ba}_4\text{Ti}_4\text{Nb}_4(\text{Na}_{11}\square)\text{Ti}_4(\text{Si}_2\text{O}_7)_8\text{O}_8(\text{OH})_8(\text{H}_2\text{O})_{12}$ | Rd | 2006-021  | Russia                      | <i>European Journal of Mineralogy</i> <b>21</b> (2009), 251                                                                            | <i>Mineralogical Magazine</i> <b>73</b> (2009), 753                                |
| Nefedovite       | $\text{Na}_5\text{Ca}_4(\text{PO}_4)_4\text{F}$                                                                                                                           | A  | 1982-048  | Russia                      | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>112</b> (1983), 479                                                      | <i>Physics and Chemistry of Minerals</i> <b>51</b> (2024), 13                      |
| Negevite         | $\text{NiP}_2$                                                                                                                                                            | A  | 2013-104  | Israel                      | <i>American Mineralogist</i> <b>105</b> (2020), 422                                                                                    |                                                                                    |
| Neighborite      | $\text{NaMgF}_3$                                                                                                                                                          | A  | 1967 s.p. | USA                         | <i>American Mineralogist</i> <b>46</b> (1961), 379                                                                                     | <i>Physics and Chemistry of Minerals</i> <b>42</b> (2015), 45                      |
| Nekoite          | $\text{Ca}_3\text{Si}_6\text{O}_{15}(\text{H}_2\text{O})_5 \cdot 2\text{H}_2\text{O}$                                                                                     | G  | 1956      | USA                         | <i>Mineralogical Magazine</i> <b>31</b> (1956), 5                                                                                      | <i>American Mineralogist</i> <b>65</b> (1980), 1270                                |
| Nekrasovite      | $\text{Cu}_{13}\text{VSn}_3\text{S}_{16}$                                                                                                                                 | A  | 1983-051  | Uzbekistan                  | <i>Mineralogicheskij Zhurnal</i> <b>6(2)</b> (1984), 88                                                                                | <i>Journal of Materials Chemistry C</i> <b>4</b> (2016) 7455                       |
| Nelenite         | $\text{Mn}^{2+}_{16}\text{As}^{3+}_3\text{Si}_{12}\text{O}_{36}(\text{OH})_{17}$                                                                                          | A  | 1982-011  | USA                         | <i>Mineralogical Magazine</i> <b>48</b> (1984), 271                                                                                    |                                                                                    |
| Neltnerite       | $\text{CaMn}^{3+}_6\text{O}_8(\text{SiO}_4)$                                                                                                                              | A  | 1979-059  | Morocco                     | <i>Bulletin de Minéralogie</i> <b>105</b> (1982), 161                                                                                  | <i>European Journal of Mineralogy</i> <b>3</b> (1991), 567                         |
| Nenadkevichite   | $(\text{Na}, \square)_8\text{Nb}_4(\text{Si}_4\text{O}_{12})_2(\text{O}, \text{OH})_4(\text{H}_2\text{O})_8$                                                              | G  | 1955      | Russia                      | <i>Doklady Akademii Nauk SSSR</i> <b>100</b> (1955), 1159                                                                              | <i>European Journal of Mineralogy</i> <b>6</b> (1994), 503                         |
| Neotocite        | $(\text{Mn}, \text{Fe})\text{SiO}_3 \cdot \text{H}_2\text{O}$ (?)                                                                                                         | G  | 1849      | Sweden                      | Über das Atomistisch-Chemische Mineral System. Gröndahl, Helsingfors (1849), 110                                                       | <i>Zapiski Rossiyskogo Mineralogicheskogo Obshchestva</i> <b>152(4)</b> (2023), 47 |
| Nepheline        | $\text{Na}_3\text{K}(\text{Al}_4\text{Si}_4\text{O}_{16})$                                                                                                                | Rd | 2018 s.p. | Italy                       | Traité de Minéralogie, Vol. 3. Chez Louis, Paris (1801), 186                                                                           | <i>Mineralogical Magazine</i> <b>83</b> (2019), 239                                |
| Népouite         | $\text{Ni}_3\text{Si}_2\text{O}_5(\text{OH})_4$                                                                                                                           | G  | 1907      | France (New Caledonia)      | <i>Bulletin de la Société Française de Minéralogie</i> <b>30</b> (1907), 17                                                            | <i>American Mineralogist</i> <b>60</b> (1975), 863                                 |

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|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----------|------------------------|---------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| Nepskoeite            | $\text{Mg}_4\text{Cl}(\text{OH})_7 \cdot 6\text{H}_2\text{O}$                                                                                               | A  | 1996-016  | Russia                 | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>127(1)</b> (1998), 41 |                                                                                         |
| Neptunite             | $\text{KNa}_2\text{LiFe}^{2+}_2\text{Ti}_2\text{Si}_8\text{O}_{24}$                                                                                         | G  | 1893      | Denmark (Greenland)    | <i>Geologiska Föreningens i Stockholm Förhandlingar</i> <b>15</b> (1893), 195         | <i>Zapiski Rossiyskogo Mineralogicheskogo Obshchestva</i> <b>145(2)</b> (2016), 112     |
| Neskevaaraite-Fe      | $\text{NaK}_3\text{Fe}(\text{Ti},\text{Nb})_4(\text{Si}_4\text{O}_{12})_2(\text{O},\text{OH})_4 \cdot 6\text{H}_2\text{O}$                                  | A  | 2002-007  | Russia                 | <i>New Data on Minerals</i> <b>38</b> (2003), 9                                       | <i>Crystallography Reports</i> <b>47</b> (2002), 408                                    |
| Nesquehonite          | $\text{Mg}(\text{CO}_3)(\text{H}_2\text{O})_2 \cdot \text{H}_2\text{O}$                                                                                     | G  | 1890      | USA                    | <i>American Journal of Science</i> <b>39</b> (1890), 121                              | <i>Journal of Mineralogical and Petrological Sciences</i> <b>116</b> (2021), 96         |
| Nestolaite            | $\text{CaSeO}_3(\text{H}_2\text{O})$                                                                                                                        | A  | 2013-074  | USA                    | <i>Mineralogical Magazine</i> <b>78</b> (2014), 497                                   |                                                                                         |
| Neustädtelite         | $\text{Bi}_2\text{Fe}^{3+}(\text{Fe}^{3+},\text{Co})_2(\text{O},\text{OH})_4(\text{AsO}_4)_2$                                                               | A  | 1998-016  | Germany                | <i>American Mineralogist</i> <b>87</b> (2002), 726                                    |                                                                                         |
| Nevadaite             | $(\text{Cu}^{2+}, \square, \text{Al}, \text{V}^{3+})_6\text{Al}_8(\text{PO}_4)_8\text{F}_8(\text{OH})_2(\text{H}_2\text{O})_{20} \cdot 2\text{H}_2\text{O}$ | A  | 2002-035  | USA                    | <i>Canadian Mineralogist</i> <b>42</b> (2004), 741                                    |                                                                                         |
| Nevskite              | $\text{Bi}(\text{Se},\text{S})$                                                                                                                             | A  | 1983-026  | Russia                 | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>113</b> (1984), 351     | <i>Materials Research Bulletin</i> <b>30</b> (1995), 549                                |
| Newberyite            | $\text{Mg}(\text{PO}_3\text{OH})(\text{H}_2\text{O})_3$                                                                                                     | G  | 1879      | Australia              | <i>Bulletin de la Société Minéralogique de France</i> <b>2</b> (1879), 79             | <i>Tschermaks Mineralogische und Petrographische Mitteilungen</i> <b>32</b> (1983), 187 |
| Neyite                | $\text{Ag}_2\text{Cu}_6\text{Pb}_{25}\text{Bi}_{26}\text{S}_{68}$                                                                                           | A  | 1968-017  | Canada                 | <i>Canadian Mineralogist</i> <b>10</b> (1969), 90                                     | <i>Canadian Mineralogist</i> <b>39</b> (2001), 1365                                     |
| Nežilovite            | $\text{Pb}[\text{Mn}^{4+}_2\text{Fe}^{3+}_7\text{AlZn}_2]\text{O}_{19}$                                                                                     | Rd | 2020 s.p. | North Macedonia        | <i>Canadian Mineralogist</i> <b>34</b> (1996), 1287                                   | <i>Crystallography Reports</i> <b>68</b> (2023), 575                                    |
| Niahite               | $(\text{NH}_4)\text{Mn}^{2+}(\text{PO}_4)(\text{H}_2\text{O})$                                                                                              | A  | 1977-022  | Malaysia               | <i>Mineralogical Magazine</i> <b>47</b> (1983), 79                                    | <i>Inorganic Chemistry</i> <b>34</b> (1995), 3917                                       |
| Niasite               | $\text{Ni}^{2+}_{4.5}(\text{AsO}_4)_3$                                                                                                                      | A  | 2019-105  | Germany                | <i>European Journal of Mineralogy</i> <b>32</b> (2020), 373                           |                                                                                         |
| Nickel                | Ni                                                                                                                                                          | A  | 1966-039  | France (New Caledonia) | <i>Geologiya Rudnykh Mestorozhdenii</i> <b>2</b> (1968), 32                           | <i>Economic Geology</i> <b>76</b> (1981), 1686                                          |
| Nickelalumite         | $\text{NiAl}_4(\text{SO}_4)(\text{OH})_{12}(\text{H}_2\text{O})_3$                                                                                          | A  | 2022-071  | Kyrgyzstan             | <i>Mineralogy and Petrology</i> <b>117</b> (2023), 219                                |                                                                                         |
| Nickelaustinite       | $\text{CaNi}(\text{AsO}_4)(\text{OH})$                                                                                                                      | A  | 1985-002  | Morocco                | <i>Canadian Mineralogist</i> <b>25</b> (1987), 401                                    |                                                                                         |
| Nickelbischofite      | $\text{NiCl}_2(\text{H}_2\text{O})_4 \cdot 2\text{H}_2\text{O}$                                                                                             | A  | 1978-056  | Canada                 | <i>Canadian Mineralogist</i> <b>17</b> (1979), 107                                    | <i>Crystals</i> <b>13</b> (2023), 293                                                   |
| Nickelblöditite       | $\text{Na}_2\text{Ni}(\text{SO}_4)_2(\text{H}_2\text{O})_4$                                                                                                 | A  | 1976-014  | Australia              | <i>Mineralogical Magazine</i> <b>41</b> (1977), 37                                    |                                                                                         |
| Nickelboussingaultite | $(\text{NH}_4)_2\text{Ni}(\text{SO}_4)_2(\text{H}_2\text{O})_6$                                                                                             | A  | 1975-037  | Russia                 | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>105</b> (1976), 710     |                                                                                         |
| Nickelhexahydrite     | $\text{Ni}(\text{SO}_4)(\text{H}_2\text{O})_6$                                                                                                              | A  | 1968 s.p. | Russia                 | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>94</b> (1965), 534      | <i>Acta Crystallographica</i> <b>C44</b> (1988), 1869                                   |
| Nickeline             | NiAs                                                                                                                                                        | A  | 1967 s.p. | unknown                | <i>Traité Élémentaire de Minéralogie</i> , 2nd ed. Verdière, Paris (1832), 586        | <i>Journal of Physics C: Solid State Physics</i> <b>21</b> (1988), 4007                 |
| Nickellotharmeyerite  | $\text{CaNi}_2(\text{AsO}_4)_2(\text{H}_2\text{O})_2$                                                                                                       | A  | 1999-008  | Germany                | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (2001), 558                         |                                                                                         |
| Nickelphosphide       | $\text{Ni}_3\text{P}$                                                                                                                                       | A  | 1998-023  | USA (meteorite)        | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>128(3)</b> (1999), 64 | <i>Mineralogical Magazine</i> <b>67</b> (2003), 783                                     |
| Nickelpicromerite     | $\text{K}_2\text{Ni}(\text{SO}_4)_2(\text{H}_2\text{O})_6$                                                                                                  | A  | 2012-053  | Russia                 | <i>Mineralogy and Petrology</i> <b>109</b> (2015), 143                                |                                                                                         |
| Nickelschneebergite   | $\text{BiNi}_2(\text{AsO}_4)_2(\text{OH})(\text{H}_2\text{O})$                                                                                              | A  | 1999-028  | Germany                | <i>European Journal of Mineralogy</i> <b>14</b> (2002), 115                           |                                                                                         |

|                                   |                                                                                                                                                         |    |           |                        |                                                                                                                                         |                                                                                             |
|-----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----------|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| Nickelskutterudite                | NiAs <sub>3</sub>                                                                                                                                       | Rn | 2007 s.p. | Germany                | <i>Annalen der Physik und Chemie</i> <b>64</b> (1845), 184                                                                              | <i>American Mineralogist</i> <b>102</b> (2017), 205                                         |
| Nickeltalmessite                  | Ca <sub>2</sub> Ni(AsO <sub>4</sub> ) <sub>2</sub> (H <sub>2</sub> O) <sub>2</sub>                                                                      | A  | 2008-051  | Morocco                | <i>Zapiski Rossiyskogo Mineralogicheskogo Obshchestva</i> <b>138(4)</b> (2009), 32                                                      |                                                                                             |
| Nickeltsumcorite                  | PbNiFe <sup>3+</sup> (AsO <sub>4</sub> ) <sub>2</sub> (OH)(H <sub>2</sub> O)                                                                            | A  | 2013-117  | Greece                 | <i>Mineralogical Magazine</i> <b>80</b> (2016), 337                                                                                     |                                                                                             |
| Nickeltyrrellite                  | CuNi <sub>2</sub> Se <sub>4</sub>                                                                                                                       | A  | 2018-110  | Bolivia                | <i>Canadian Mineralogist</i> <b>57</b> (2019), 637                                                                                      |                                                                                             |
| Nickelzippeite                    | Ni <sub>2</sub> (UO <sub>2</sub> ) <sub>6</sub> (SO <sub>4</sub> ) <sub>3</sub> (OH) <sub>10</sub> (H <sub>2</sub> O) <sub>16</sub>                     | A  | 1971-005  | Czech Republic         | <i>Canadian Mineralogist</i> <b>14</b> (1976), 429                                                                                      | <i>Canadian Mineralogist</i> <b>46</b> (2008), 173                                          |
| Nickenichite                      | Na(Ca <sub>0.5</sub> Cu <sub>0.5</sub> )MgMg <sub>2</sub> (AsO <sub>4</sub> ) <sub>3</sub>                                                              | A  | 1992-014  | Germany                | <i>Mineralogy and Petrology</i> <b>48</b> (1993), 153                                                                                   |                                                                                             |
| Nickolayite                       | FeMoP                                                                                                                                                   | A  | 2018-126  | Jordan                 | <i>Mineralogical Magazine</i> <b>86</b> (2022), 749                                                                                     |                                                                                             |
| Nicksobolevite                    | Cu <sub>7</sub> (SeO <sub>3</sub> ) <sub>2</sub> O <sub>2</sub> Cl <sub>6</sub>                                                                         | A  | 2012-097  | Russia                 | <i>European Journal of Mineralogy</i> <b>26</b> (2014), 439                                                                             |                                                                                             |
| Niedermayrite                     | Cu <sub>4</sub> Cd(SO <sub>4</sub> ) <sub>2</sub> (OH) <sub>6</sub> (H <sub>2</sub> O) <sub>4</sub>                                                     | A  | 1997-024  | Greece                 | <i>Mineralogy and Petrology</i> <b>63</b> (1998), 19                                                                                    |                                                                                             |
| Nielsbohrite                      | (K,U,□)(UO <sub>2</sub> ) <sub>3</sub> (AsO <sub>4</sub> )(OH) <sub>4</sub> ·H <sub>2</sub> O                                                           | A  | 2002-045b | Germany                | <i>European Journal of Mineralogy</i> <b>21</b> (2009), 515                                                                             |                                                                                             |
| Nielsenite                        | PdCu <sub>3</sub>                                                                                                                                       | A  | 2004-046  | Denmark (Greenland)    | <i>Canadian Mineralogist</i> <b>46</b> (2008), 709                                                                                      | <i>Journal of the Physical Society of Japan</i> <b>28</b> (1970), 1005                      |
| Nierite                           | Si <sub>3</sub> N <sub>4</sub>                                                                                                                          | A  | 1994-032  | Azerbaijan (meteorite) | <i>Meteoritics</i> <b>30</b> (1995), 387                                                                                                | <i>Journal of Physical Chemistry B</i> <b>111</b> (2007), 3609                              |
| Nifontovite                       | Ca <sub>3</sub> [BO(OH) <sub>2</sub> ] <sub>6</sub> (H <sub>2</sub> O) <sub>2</sub>                                                                     | A  | 1967 s.p. | Russia                 | <i>Doklady Akademii Nauk SSSR</i> <b>139</b> (1961), 188                                                                                | <i>Soviet Physics Doklady</i> <b>23</b> (1978), 159                                         |
| Nigelcookite                      | PbFe <sup>2+</sup> <sub>2</sub> V <sup>3+</sup> <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> (OH) <sub>3</sub>                                          | A  | 2023-113  | China                  | <i>American Mineralogist</i> <b>110</b> (2025), 1614                                                                                    |                                                                                             |
| Niggliite                         | PtSn                                                                                                                                                    | G  | 1936      | South Africa           | <i>Transactions of the Geological Society of South Africa</i> <b>39</b> (1936), 81                                                      | <i>Journal of Alloys and Compounds</i> <b>215</b> (1994), 175                               |
| Niigataite                        | CaSrAl <sub>3</sub> (Si <sub>2</sub> O <sub>7</sub> )(SiO <sub>4</sub> )O(OH)                                                                           | Rn | 2001-055  | Japan                  | <i>Journal of Mineralogical and Petrological Sciences</i> <b>98</b> (2003), 118                                                         |                                                                                             |
| Nikischerite                      | Fe <sup>2+</sup> <sub>6</sub> Al <sub>3</sub> (OH) <sub>18</sub> [Na(H <sub>2</sub> O) <sub>6</sub> ](SO <sub>4</sub> ) <sub>2</sub> ·6H <sub>2</sub> O | A  | 2001-039  | Bolivia                | <i>Mineralogical Record</i> <b>34</b> (2003), 155                                                                                       | <i>Canadian Mineralogist</i> <b>41</b> (2003), 79                                           |
| Nikmelnikovite                    | Ca <sub>12</sub> Fe <sup>2+</sup> Fe <sup>3+</sup> <sub>3</sub> Al <sub>3</sub> (SiO <sub>4</sub> ) <sub>6</sub> (OH) <sub>20</sub>                     | A  | 2018-043  | Russia                 | <i>Doklady Earth Sciences</i> <b>488</b> (2019), 1200                                                                                   | <i>Mineralogical Magazine</i> <b>85</b> (2021), 620                                         |
| Niksergievite                     | Ba <sub>2</sub> Al <sub>3</sub> (Si,Al) <sub>4</sub> O <sub>10</sub> (CO <sub>3</sub> )(OH) <sub>6</sub> ·nH <sub>2</sub> O                             | A  | 2002-036  | Kazakhstan             | <i>American Mineralogist</i> <b>90</b> (2005), 1163                                                                                     |                                                                                             |
| Nimite                            | (Ni,Mg,Al) <sub>6</sub> (Si,Al) <sub>4</sub> O <sub>10</sub> (OH) <sub>8</sub>                                                                          | A  | 1971 s.p. | South Africa           | <i>American Mineralogist</i> <b>55</b> (1970), 18                                                                                       |                                                                                             |
| Ningyoite                         | (U,Ca,Ce) <sub>2</sub> (PO <sub>4</sub> ) <sub>2</sub> ·1-2H <sub>2</sub> O                                                                             | A  | 1962 s.p. | Japan                  | <i>American Mineralogist</i> <b>44</b> (1959), 633                                                                                      | <i>Canadian Mineralogist</i> <b>19</b> (1981), 325                                          |
| Niningerite                       | MgS                                                                                                                                                     | A  | 1966-036  | Azerbaijan (meteorite) | <i>Science</i> <b>155</b> (1967), 451                                                                                                   | <i>Geochimica et Cosmochimica Acta</i> <b>52</b> (1988), 877                                |
| Niobobaotite                      | Ba <sub>4</sub> (Ti <sub>2.5</sub> Fe <sup>2+</sup> <sub>1.5</sub> )Nb <sub>4</sub> Si <sub>4</sub> O <sub>28</sub> Cl                                  | A  | 2022-127a | China                  | CNMNC Newsletter 76 - <i>Mineralogical Magazine</i> <b>88</b> (2024), 105; <i>European Journal of Mineralogy</i> <b>35</b> (2023), 1073 | <a href="https://doi.org/10.2138/am-2025-10096">https://doi.org/10.2138/am-2025-10096</a>   |
| Niobocarbide                      | NbC                                                                                                                                                     | A  | 1995-035  | Russia                 | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>126(1)</b> (1997), 76                                                   | <i>Zeitschrift für Anorganische und Allgemeine Chemie</i> <b>627</b> (2001), 2007           |
| Nioboheftetjernite                | ScNbO <sub>4</sub>                                                                                                                                      | A  | 2019-133  | Madagascar             | <i>Canadian Mineralogist</i> <b>59</b> (2021), 445                                                                                      |                                                                                             |
| Nioboholtite                      | (Nb <sub>0.6</sub> □ <sub>0.4</sub> )Al <sub>6</sub> BSi <sub>3</sub> O <sub>18</sub>                                                                   | A  | 2012-068  | Poland                 | <i>Mineralogical Magazine</i> <b>77</b> (2013), 2841                                                                                    |                                                                                             |
| Nioboixiolite-(□)                 | (Nb <sub>0.8</sub> □ <sub>0.2</sub> ) <sup>4+</sup> O <sub>2</sub>                                                                                      | A  | 2021-002a | China                  | <i>Minerals</i> <b>15</b> (2025), 88                                                                                                    |                                                                                             |
| Nioboixiolite-(Fe <sup>2+</sup> ) | (Nb <sub>2/3</sub> Fe <sup>2+</sup> <sub>1/3</sub> )O <sub>2</sub>                                                                                      | A  | 2025-016  | Poland                 | CNMNC Newsletter 88 - <i>Mineralogical Magazine</i> <b>90</b> (2026), 192; <i>European Journal of Mineralogy</i> <b>37</b> (2025), 921  | <a href="https://doi.org/10.1180/mgm.2026.10244">https://doi.org/10.1180/mgm.2026.10244</a> |
| Nioboixiolite-(Fe <sup>3+</sup> ) | (Nb <sub>0.5</sub> Fe <sup>3+</sup> <sub>0.5</sub> )O <sub>2</sub>                                                                                      | A  | 2024-057  | Germany                | <i>Mineralogical Magazine</i> <b>89</b> (2025), 602                                                                                     |                                                                                             |

|                                   |                                                                                                                                                                    |    |           |           |                                                                                                                                        |                                                                                         |
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| Nioboixiolite-(Mn <sup>2+</sup> ) | (Nb <sub>2/3</sub> Mn <sup>2+</sup> <sub>1/3</sub> )O <sub>2</sub>                                                                                                 | A  | 2021-050a | Russia    | <i>Zapiski Rossiyskogo Mineralogicheskogo Obshchestva</i> <b>152(1)</b> (2023), 8                                                      |                                                                                         |
| Niobokupletskite                  | K <sub>2</sub> NaMn <sub>7</sub> (Nb,Ti) <sub>2</sub> (Si <sub>4</sub> O <sub>12</sub> ) <sub>2</sub> O <sub>2</sub> (OH) <sub>4</sub> (O,F)                       | A  | 1999-032  | Canada    | <i>Canadian Mineralogist</i> <b>38</b> (2000), 627                                                                                     |                                                                                         |
| Niobophyllite                     | K <sub>2</sub> NaFe <sup>2+</sup> <sub>7</sub> (Nb,Ti) <sub>2</sub> (Si <sub>4</sub> O <sub>12</sub> ) <sub>2</sub> O <sub>2</sub> (OH) <sub>4</sub> (O,F)         | A  | 1964-001  | Canada    | <i>Canadian Mineralogist</i> <b>8</b> (1964), 40                                                                                       | <i>Canadian Mineralogist</i> <b>48</b> (2010), 1                                        |
| Niocalite                         | Ca <sub>7</sub> Nb(Si <sub>2</sub> O <sub>7</sub> ) <sub>2</sub> O <sub>3</sub> F                                                                                  | G  | 1956      | Canada    | <i>American Mineralogist</i> <b>41</b> (1956), 785                                                                                     | <i>Tschermaks Mineralogische und Petrographische Mitteilungen</i> <b>30</b> (1982), 249 |
| Nipalarsite                       | Ni <sub>8</sub> Pd <sub>3</sub> As <sub>4</sub>                                                                                                                    | A  | 2018-075  | Russia    | <i>Mineralogical Magazine</i> <b>83</b> (2019), 837                                                                                    |                                                                                         |
| Nipeiite-(Ce)                     | Ce <sub>9</sub> Fe <sup>3+</sup> (SiO <sub>4</sub> ) <sub>6</sub> [SiO <sub>3</sub> (OH)](OH) <sub>3</sub>                                                         | A  | 2021-106a | China     | CNMNC Newsletter 77 - <i>Mineralogical Magazine</i> <b>88</b> (2024), 203; <i>European Journal of Mineralogy</i> <b>36</b> (2024), 165 |                                                                                         |
| Nisbite                           | NiSb <sub>2</sub>                                                                                                                                                  | A  | 1969-017  | Canada    | <i>Canadian Mineralogist</i> <b>10</b> (1970), 232                                                                                     | <i>Acta Chemica Scandinavica</i> <b>A33</b> (1979), 469                                 |
| Nishanbaevite                     | KAl <sub>2</sub> O(AsO <sub>4</sub> )(SO <sub>4</sub> )                                                                                                            | A  | 2019-012  | Russia    | <i>Mineralogy and Petrology</i> <b>117</b> (2023), 247                                                                                 |                                                                                         |
| Nisnite                           | Ni <sub>3</sub> Sn                                                                                                                                                 | A  | 2009-083  | Canada    | <i>Canadian Mineralogist</i> <b>49</b> (2011), 651                                                                                     |                                                                                         |
| Nissonite                         | Cu <sub>2</sub> Mg <sub>2</sub> (PO <sub>4</sub> ) <sub>2</sub> (OH) <sub>2</sub> (H <sub>2</sub> O) <sub>4</sub> ·H <sub>2</sub> O                                | A  | 1966-026  | USA       | Geological Society of America, Annual Meetings, Abstracts (1966), 145                                                                  | <i>American Mineralogist</i> <b>75</b> (1990), 1170                                     |
| Niter                             | K(NO <sub>3</sub> )                                                                                                                                                | G  | ?         | unknown   | original paper?                                                                                                                        | <i>Acta Crystallographica</i> <b>C59</b> (2003), i139                                   |
| Nitratine                         | Na(NO <sub>3</sub> )                                                                                                                                               | A  | 1980 s.p. | Chile     | Handbuch der Bestimmenden Mineralogie. Braumüller and Seidel, Wien (1845), 488                                                         | <i>Zeitschrift für Kristallographie</i> <b>148</b> (1978), 101                          |
| Nitrobarite                       | Ba(NO <sub>3</sub> ) <sub>2</sub>                                                                                                                                  | G  | 1882      | Chile     | <i>American Naturalist</i> <b>16</b> (1882), 78                                                                                        | <i>Acta Crystallographica</i> <b>C39</b> (1983), 952                                    |
| Nitrocalcite                      | Ca(NO <sub>3</sub> ) <sub>2</sub> (H <sub>2</sub> O) <sub>4</sub>                                                                                                  | G  | 1835      | USA       | Treatise on Mineralogy Vol. 2, 1st ed. Howe and Herrick & Noyes, New Haven (1835), 84                                                  | <i>Journal of Alloys and Compounds</i> <b>432</b> (2007), 232                           |
| Nitromagnesite                    | [Mg(H <sub>2</sub> O) <sub>6</sub> ](NO <sub>3</sub> ) <sub>2</sub>                                                                                                | G  | 1835      | USA       | Treatise on Mineralogy Vol. 2, 1st ed. Howe and Herrick & Noyes, New Haven (1835), 85                                                  | <i>Materials Research Bulletin</i> <b>30</b> (1995), 1235                               |
| Nitroplumbite                     | [Pb <sub>4</sub> (OH) <sub>4</sub> ](NO <sub>3</sub> ) <sub>4</sub>                                                                                                | A  | 2021-045a | USA       | <i>Canadian Mineralogist</i> <b>60</b> (2022), 787                                                                                     |                                                                                         |
| Nitscheite                        | (NH <sub>4</sub> ) <sub>2</sub> [(UO <sub>2</sub> ) <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> (H <sub>2</sub> O) <sub>2</sub> ] <sub>2</sub> ·3H <sub>2</sub> O | A  | 2020-078  | USA       | <i>American Mineralogist</i> <b>107</b> (2022), 1174                                                                                   |                                                                                         |
| Niveolanite                       | NaBe(CO <sub>3</sub> )(OH)(H <sub>2</sub> O) <sub>2</sub>                                                                                                          | A  | 2007-032  | Canada    | <i>Canadian Mineralogist</i> <b>46</b> (2008), 1343                                                                                    |                                                                                         |
| Nixonite                          | Na <sub>2</sub> Ti <sub>6</sub> O <sub>13</sub>                                                                                                                    | A  | 2018-133  | Canada    | <i>American Mineralogist</i> <b>104</b> (2019), 1336                                                                                   |                                                                                         |
| Nizamoffite                       | Mn <sup>2+</sup> Zn <sub>2</sub> (PO <sub>4</sub> ) <sub>2</sub> (H <sub>2</sub> O) <sub>4</sub>                                                                   | A  | 2012-076  | USA       | <i>American Mineralogist</i> <b>98</b> (2013), 1893                                                                                    |                                                                                         |
| Nobleite                          | CaB <sub>6</sub> O <sub>9</sub> (OH) <sub>2</sub> (H <sub>2</sub> O) <sub>3</sub>                                                                                  | A  | 1967 s.p. | USA       | <i>American Mineralogist</i> <b>46</b> (1961), 560                                                                                     | <i>European Journal of Mineralogy</i> <b>16</b> (2004), 825                             |
| Noelbensonite                     | BaMn <sup>3+</sup> <sub>2</sub> Si <sub>2</sub> O <sub>7</sub> (OH) <sub>2</sub> (H <sub>2</sub> O)                                                                | Rd | 1994-058  | Australia | <i>Mineralogical Magazine</i> <b>60</b> (1996), 369                                                                                    | <i>Physics and Chemistry of Minerals</i> <b>44</b> (2017), 485                          |
| Nöggerathite-(Ce)                 | (Ce,Ca) <sub>2</sub> Zr <sub>2</sub> (Nb,Ti)(Ti,Nb) <sub>2</sub> Fe <sup>2+</sup> O <sub>14</sub>                                                                  | A  | 2017-107  | Germany   | <i>Minerals</i> <b>8</b> (2018), 449                                                                                                   |                                                                                         |
| Nolanite                          | V <sup>3+</sup> <sub>4</sub> Fe <sup>3+</sup> O <sub>7</sub> (OH)                                                                                                  | G  | 1957      | Canada    | <i>American Mineralogist</i> <b>42</b> (1957), 619                                                                                     | <i>American Mineralogist</i> <b>68</b> (1983), 833                                      |
| Nollmotzite                       | Mg[U <sup>5+</sup> (U <sup>6+</sup> O <sub>2</sub> ) <sub>2</sub> O <sub>4</sub> F <sub>3</sub> ](H <sub>2</sub> O) <sub>4</sub>                                   | A  | 2017-100  | Germany   | <i>Acta Crystallographica</i> <b>B74</b> (2018), 362                                                                                   |                                                                                         |
| Nolzeite                          | Na(Mn,□) <sub>2</sub> [Si <sub>3</sub> (B,Si)O <sub>9</sub> (OH) <sub>2</sub> ](H <sub>2</sub> O) <sub>2</sub>                                                     | A  | 2014-086  | Canada    | <i>Mineralogical Magazine</i> <b>81</b> (2017), 183                                                                                    |                                                                                         |
| Nontronite                        | Na <sub>0.3</sub> Fe <sup>3+</sup> <sub>2</sub> (Si,Al) <sub>4</sub> O <sub>10</sub> (OH) <sub>2</sub> ·nH <sub>2</sub> O                                          | A  | 1962 s.p. | France    | <i>Annales de Chimie et de Physique</i> <b>36</b> (1827), 22                                                                           | <i>European Journal of Mineralogy</i> <b>18</b> (2006), 753                             |
| Noonkanbahite                     | NaKBaTi <sub>2</sub> O <sub>2</sub> (Si <sub>2</sub> O <sub>6</sub> ) <sub>2</sub>                                                                                 | A  | 2009-059  | Germany   | <i>Mineralogical Magazine</i> <b>74</b> (2010), 441                                                                                    |                                                                                         |

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| Norbergite       | $\text{Mg}_3(\text{SiO}_4)\text{F}_2$                                                                    | G  | 1926      | Sweden             | <i>Geologiska Föreningens i Stockholm Förhandlingar</i> <b>48</b> (1926), 84                                                           | <i>Physics and Chemistry of Minerals</i> <b>35</b> (2008), 559                          |
| Nordenskiöldine  | $\text{CaSn}(\text{BO}_3)_2$                                                                             | G  | 1887      | Norway             | <i>Geologiska Föreningens i Stockholm Förhandlingar</i> <b>9</b> (1887), 255                                                           | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1986), 111                           |
| Nordgauite       | $\text{MnAl}_2(\text{PO}_4)_2\text{F}_2(\text{H}_2\text{O})_4 \cdot \text{H}_2\text{O}$                  | A  | 2010-040  | Germany            | <i>Mineralogical Magazine</i> <b>75</b> (2011), 269                                                                                    |                                                                                         |
| Nordite-(Ce)     | $\text{Na}_3\text{SrCeZnSi}_6\text{O}_{17}$                                                              | Rn | 1966 s.p. | Russia             | <i>Geokhimiya</i> <b>4</b> (1958), 398                                                                                                 | <i>Mineralogical Magazine</i> <b>85</b> (2021), 431                                     |
| Nordite-(La)     | $\text{Na}_3\text{SrLaZnSi}_6\text{O}_{17}$                                                              | Rn | 1966 s.p. | Russia             | <i>Comptes Rendus (Doklady) de l'Académie des Sciences de l'URSS</i> <b>32</b> (1941), 496                                             | <i>American Mineralogist</i> <b>55</b> (1970), 1167                                     |
| Nordstrandite    | $\text{Al}(\text{OH})_3$                                                                                 | A  | 1967 s.p. | Malaysia           | <i>Nature</i> <b>196</b> (1962), 264                                                                                                   | <i>Zeitschrift für Anorganische und Allgemeine Chemie</i> <b>646</b> (2020), 1916       |
| Nordströmite     | $\text{Pb}_3\text{CuBi}_7(\text{S,Se})_{14}$                                                             | A  | 1978-073  | Sweden             | <i>American Mineralogist</i> <b>65</b> (1980), 789                                                                                     | <i>Canadian Mineralogist</i> <b>18</b> (1980), 343                                      |
| Norilskite       | $(\text{Pd,Ag})_7\text{Pb}_4$                                                                            | A  | 2015-008  | Russia             | <i>Mineralogical Magazine</i> <b>81</b> (2017), 531                                                                                    |                                                                                         |
| Normandite       | $\text{Na}_2\text{Ca}_2(\text{Mn,Fe})_2(\text{Ti,Nb,Zr})_2(\text{Si}_2\text{O}_7)_2\text{O}_2\text{F}_2$ | A  | 1990-021  | Canada             | <i>Canadian Mineralogist</i> <b>35</b> (1997), 1035                                                                                    | <i>Canadian Mineralogist</i> <b>50</b> (2012), 593                                      |
| Norrishite       | $\text{KLiMn}^{3+}_2\text{Si}_4\text{O}_{10}\text{O}_2$                                                  | A  | 1989-019  | Australia          | <i>American Mineralogist</i> <b>74</b> (1989), 1360                                                                                    | <i>Journal of Mineralogical and Petrological Sciences</i> <b>119</b> (2024), 240509     |
| Norsethite       | $\text{BaMg}(\text{CO}_3)_2$                                                                             | A  | 1962 s.p. | USA                | <i>American Mineralogist</i> <b>46</b> (1961), 420                                                                                     | <i>Mineralogical Magazine</i> <b>78</b> (2014), 1589                                    |
| Northstarite     | $\text{Pb}_6(\text{Te}^{4+}\text{O}_3)_5(\text{S}^{6+}\text{O}_3\text{S}^{2-})$                          | A  | 2019-031  | USA                | <i>Canadian Mineralogist</i> <b>58</b> (2020), 533                                                                                     |                                                                                         |
| Northupite       | $\text{Na}_3\text{Mg}(\text{CO}_3)_2\text{Cl}$                                                           | G  | 1895      | USA                | <i>American Journal of Science</i> <b>50</b> (1895), 480                                                                               | <i>Tschermaks Mineralogische und Petrographische Mitteilungen</i> <b>22</b> (1975), 158 |
| Nosean           | $\text{Na}_8(\text{Si}_6\text{Al}_6)\text{O}_{24}(\text{SO}_4) \cdot \text{H}_2\text{O}$                 | G  | 1815      | Germany            | <i>Beiträge zur Chemischen Kenntniss der Mineralkörper</i> , Vol. 6. Nicolaischen, Berlin (1815), 371                                  | <i>Mineralogical Magazine</i> <b>68</b> (2004), 591                                     |
| Nováčekite       | $\text{Mg}(\text{UO}_2)_2(\text{AsO}_4)_2(\text{H}_2\text{O})_{10}$                                      | Rn | 2022 s.p. | Germany            | <i>American Mineralogist</i> <b>36</b> (1951), 680                                                                                     | <i>Canadian Mineralogist</i> <b>42</b> (2004), 1699                                     |
| Novákite         | $(\text{Cu,Ag})_{21}\text{As}_{10}$                                                                      | A  | 1967 s.p. | Czech Republic     | <i>American Mineralogist</i> <b>46</b> (1961), 885                                                                                     | <i>Tschermaks Mineralogische und Petrographische Mitteilungen</i> <b>34</b> (1985), 167 |
| Novgorodovaite   | $\text{Ca}_2(\text{C}_2\text{O}_4)\text{Cl}_2(\text{H}_2\text{O})_2$                                     | A  | 2000-039  | Kazakhstan         | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>130(4)</b> (2001), 32                                                  | <i>Physics and Chemistry of Minerals</i> <b>45</b> (2018) 185                           |
| Novikovite       | $(\text{NH}_4)_4\text{Mo}^{6+}_2\text{Mo}^{5+}_2\text{O}_8(\text{SO}_4)_5$                               | A  | 2022-067  | Tajikistan         | CNMNC Newsletter 70 - <i>Mineralogical Magazine</i> <b>87</b> (2023), 160; <i>European Journal of Mineralogy</i> <b>34</b> (2022), 591 |                                                                                         |
| Novodneprite     | $\text{AuPb}_3$                                                                                          | A  | 2002-032a | Kazakhstan         | <i>Doklady Natsional'noy Akademii Nauk Respubliki Kazakhstan</i> <b>5</b> (2006), 46                                                   |                                                                                         |
| Novograblenovite | $(\text{NH}_4)\text{MgCl}_3(\text{H}_2\text{O})_6$                                                       | A  | 2017-060  | Russia             | <i>Mineralogical Magazine</i> <b>83</b> (2019), 223                                                                                    | <i>Mineralogical Magazine</i> <b>85</b> (2021), 132                                     |
| Nowackiite       | $\text{Cu}_6\text{Zn}_3\text{As}_4\text{S}_{12}$                                                         | A  | 1971 s.p. | Switzerland        | <i>Chimia</i> <b>19</b> (1965), 500                                                                                                    | <i>Zeitschrift für Kristallographie</i> <b>124</b> (1967), 352                          |
| Nsutite          | $\text{Mn}^{2+}_x\text{Mn}^{4+}_{1-x}\text{O}_{2-2x}(\text{OH})_{2x}$                                    | A  | 1967 s.p. | Ghana              | <i>American Mineralogist</i> <b>47</b> (1962), 246                                                                                     | <i>Nature</i> <b>304</b> (1983), 143                                                    |
| Nuffieldite      | $\text{Cu}_{1.4}\text{Pb}_{2.4}\text{Bi}_{2.4}\text{Sb}_{0.2}\text{S}_7$                                 | A  | 1967-003  | Canada             | <i>Canadian Mineralogist</i> <b>9</b> (1968), 439                                                                                      | <i>Canadian Mineralogist</i> <b>35</b> (1997), 1497                                     |
| Nukundamite      | $\text{Cu}_{3.4}\text{Fe}_{0.6}\text{S}_4$                                                               | A  | 1978-037  | Fiji               | <i>Mineralogical Magazine</i> <b>43</b> (1979), 193                                                                                    | <i>American Mineralogist</i> <b>66</b> (1981), 398                                      |
| Nullaginite      | $\text{Ni}_2(\text{CO}_3)(\text{OH})_2$                                                                  | A  | 1978-011  | Australia          | <i>Canadian Mineralogist</i> <b>19</b> (1981), 315                                                                                     |                                                                                         |
| Numanoite        | $\text{Ca}_4\text{CuB}_4\text{O}_6(\text{CO}_3)_2(\text{OH})_6$                                          | A  | 2005-050  | Japan              | <i>Canadian Mineralogist</i> <b>45</b> (2007), 307                                                                                     |                                                                                         |
| Nuragheite       | $\text{Th}(\text{MoO}_4)_2(\text{H}_2\text{O})$                                                          | A  | 2013-088  | Italy              | <i>American Mineralogist</i> <b>100</b> (2015), 267                                                                                    |                                                                                         |
| Nuwaite          | $\text{Ni}_6\text{GeS}_2$                                                                                | A  | 2013-018  | Mexico (meteorite) | <i>American Mineralogist</i> <b>103</b> (2018), 1918                                                                                   |                                                                                         |

|                 |                                                                                                                                                                                             |    |           |                     |                                                                                                                                        |                                                                |
|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----------|---------------------|----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|
| Nybergite       | $\text{Ca}_4\text{Sc}_3\text{Sn}(\text{Si}_2\text{O}_7)(\text{Si}_2\text{O}_6\text{OH})_3$                                                                                                  | A  | 2025-063  | Poland              | CNMNC Newsletter 88 - <i>Mineralogical Magazine</i> <b>90</b> (2026), 192; <i>European Journal of Mineralogy</i> <b>37</b> (2025), 921 |                                                                |
| Nybøite         | $\text{NaNa}_2(\text{Mg}_3\text{Al}_2)(\text{Si}_7\text{Al})\text{O}_{22}(\text{OH})_2$                                                                                                     | Rd | 2012 s.p. | Norway              | <i>Bulletin de Minéralogie</i> <b>104</b> (1981), 400                                                                                  |                                                                |
| Nyerereite      | $\text{Na}_2\text{Ca}(\text{CO}_3)_2$                                                                                                                                                       | A  | 1963-014  | Tanzania            | <i>Zeitschrift für Kristallographie</i> <b>145</b> (1977), 73                                                                          | <i>American Mineralogist</i> <b>107</b> (2022), 2054           |
| Nyholmite       | $\text{Cd}_3\text{Zn}_2(\text{AsO}_3\text{OH})_2(\text{AsO}_4)_2(\text{H}_2\text{O})_4$                                                                                                     | A  | 2008-047  | Australia           | <i>Mineralogical Magazine</i> <b>73</b> (2009), 723                                                                                    |                                                                |
| Oberthürite     | $\text{Rh}_3\text{Ni}_{32}\text{S}_{32}$                                                                                                                                                    | A  | 2017-072  | Canada              | <i>Canadian Mineralogist</i> <b>59</b> (2021), 1833                                                                                    |                                                                |
| Oberwolfachite  | $\text{SrFe}^{3+}_3(\text{AsO}_4)(\text{SO}_4)(\text{OH})_6$                                                                                                                                | A  | 2021-010  | Germany             | <i>Mineralogical Magazine</i> <b>85</b> (2021), 808                                                                                    |                                                                |
| Oboniobite      | $\text{Mg}_4\text{Nb}_2\text{O}_9$                                                                                                                                                          | A  | 2023-118a | China               | <i>American Mineralogist</i> <b>110</b> (2025), 1094                                                                                   |                                                                |
| Obradovite-KCu  | $[\text{K}_2(\text{H}_2\text{O})_{17}\text{Cu}(\text{H}_2\text{O})_6][\text{Mo}_8\text{As}_2\text{Fe}^{3+}_3\text{O}_{34}(\text{OH})_3]$                                                    | Rn | 1978-061  | Chile               | <i>Mineralogical Magazine</i> <b>50</b> (1986), 283                                                                                    |                                                                |
| Obradovite-NaCu | $[\text{Na}_2(\text{H}_2\text{O})_{17}\text{Cu}(\text{H}_2\text{O})_6][\text{Mo}_8\text{As}_2\text{Fe}^{3+}_3\text{O}_{34}(\text{OH})_3]$                                                   | A  | 2011-079  | Chile               | <i>Mineralogical Magazine</i> <b>76</b> (2012), 1175                                                                                   |                                                                |
| Obradovite-NaNa | $[\text{Na}_2(\text{H}_2\text{O})_{16}\text{Na}(\text{H}_2\text{O})_6][\text{Mo}_8\text{As}_2\text{Fe}^{3+}_3\text{O}_{33}(\text{OH})_4]$                                                   | A  | 2011-046  | Chile               | <i>Mineralogical Magazine</i> <b>76</b> (2012), 1175                                                                                   |                                                                |
| O'danielite     | $\text{Na}\square\text{ZnZn}_2(\text{AsO}_4)[\text{AsO}_3(\text{OH})]_2$                                                                                                                    | A  | 1979-040  | Namibia             | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1981), 155                                                                          | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1988), 395  |
| Odigitriaite    | $\text{CsNa}_5\text{Ca}_5[\text{Si}_{14}\text{B}_2\text{O}_{38}]\text{F}_2$                                                                                                                 | A  | 2015-028  | Tajikistan          | <i>Mineralogical Magazine</i> <b>81</b> (2017), 113                                                                                    |                                                                |
| Odikhinchaite   | $\text{Na}_9\text{Sr}_3[(\text{H}_2\text{O})_2\text{Na}]\text{Ca}_6\text{Mn}_3\text{Zr}_3\text{NbSi}(\text{Si}_{24}\text{O}_{72})\text{O}(\text{OH})_3(\text{CO}_3)\cdot\text{H}_2\text{O}$ | A  | 2020-064  | Russia              | <i>Minerals</i> <b>10</b> (2020), 1062                                                                                                 |                                                                |
| Odinite         | $(\text{Fe}^{3+}, \text{Mg}, \text{Al}, \text{Fe}^{2+})_{2.5}(\text{Si}, \text{Al})_2\text{O}_5(\text{OH})_4$                                                                               | A  | 1988-015  | Guinea              | <i>Clay Minerals</i> <b>23</b> (1988), 237                                                                                             |                                                                |
| Odintsovite     | $\text{K}_2\text{Na}_4\text{Ca}_3\text{Ti}_2\text{Be}_4\text{Si}_{12}\text{O}_{38}$                                                                                                         | A  | 1994-052  | Russia              | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>124(5)</b> (1995), 92                                                  | <i>Mineralogy and Petrology</i> <b>118</b> (2024), 387         |
| Oenite          | $\text{CoSbAs}$                                                                                                                                                                             | A  | 1995-007  | Sweden              | <i>Canadian Mineralogist</i> <b>36</b> (1998), 855                                                                                     |                                                                |
| Offretite       | $\text{KCaMg}(\text{Si}_{13}\text{Al}_5)\text{O}_{36}\cdot 15\text{H}_2\text{O}$                                                                                                            | A  | 1997 s.p. | France              | <i>Comptes Rendus de l'Académie des Sciences de Paris</i> <b>111</b> (1890), 1002                                                      | <i>American Mineralogist</i> <b>83</b> (1998), 590             |
| Oftedalite      | $\text{K}(\text{ScCa})\square_2\text{Be}_3\text{Si}_{12}\text{O}_{30}$                                                                                                                      | A  | 2003-045a | Norway              | <i>Canadian Mineralogist</i> <b>44</b> (2006), 943                                                                                     |                                                                |
| Ogdensburgite   | $\text{Ca}_2\text{Fe}^{3+}_4\text{Zn}(\text{AsO}_4)_4(\text{OH})_6\cdot 6\text{H}_2\text{O}$                                                                                                | A  | 1980-054  | USA                 | <i>Mineralogical Record</i> <b>12</b> (1981), 369                                                                                      | <i>American Mineralogist</i> <b>72</b> (1987), 409             |
| Ognite          | $\text{NiBiTe}$                                                                                                                                                                             | A  | 2018-006a | Russia              | <i>Mineralogical Magazine</i> <b>83</b> (2019), 695                                                                                    | <i>American Mineralogist</i> <b>111</b> (2026), 209            |
| Ohmilite        | $\text{Sr}_3\text{Ti}(\text{Si}_2\text{O}_6)_2\text{O}(\text{H}_2\text{O})_2$                                                                                                               | A  | 1974-031  | Japan               | <i>Mineralogical Journal</i> <b>7</b> (1973), 298                                                                                      | <i>American Mineralogist</i> <b>68</b> (1983), 811             |
| Ohtaniite       | $\text{Mg}_3(\text{Si}_{0.5}\square_{0.5})\text{Si}_2\text{O}_8$                                                                                                                            | A  | 2024-012  | China (meteorite)   | <i>Discover Minerals</i> <b>1</b> (2024), 1                                                                                            |                                                                |
| Ojuelaite       | $\text{ZnFe}^{3+}_2(\text{AsO}_4)_2(\text{OH})_2(\text{H}_2\text{O})_4$                                                                                                                     | A  | 1979-035  | Mexico              | <i>Bulletin de Minéralogie</i> <b>104</b> (1981), 582                                                                                  | <i>Mineralogical Magazine</i> <b>60</b> (1996), 519            |
| Okanoganite-(Y) | $(\text{Y}, \text{REE}, \text{Ca}, \text{Na}, \text{Th})_{16}(\text{Fe}^{3+}, \text{Ti})(\text{Si}, \text{B}, \text{P})_{10}(\text{O}, \text{OH})_{38}\text{F}_{10}$                        | Rn | 1987 s.p. | USA                 | <i>American Mineralogist</i> <b>65</b> (1980), 1138                                                                                    | <i>American Mineralogist</i> <b>89</b> (2004), 1540            |
| Okayamalite     | $\text{Ca}_2\text{B}_2\text{SiO}_7$                                                                                                                                                         | A  | 1997-002  | Japan               | <i>Mineralogical Magazine</i> <b>62</b> (1998), 703                                                                                    | <i>Physics and Chemistry of Minerals</i> <b>45</b> (2018), 463 |
| Okenite         | $\text{Ca}_{10}\text{Si}_{18}\text{O}_{46}(\text{H}_2\text{O})_{18}$                                                                                                                        | G  | 1828      | Denmark (Greenland) | <i>Archiv für die Gesamte Naturlehre</i> <b>14</b> (1828), 333                                                                         | <i>American Mineralogist</i> <b>68</b> (1983), 614             |
| Okhotskite      | $\text{Ca}_2(\text{Mn}^{2+}\text{Mn}^{3+}_2)(\text{Si}_2\text{O}_7)(\text{SiO}_4)(\text{OH})_2(\text{H}_2\text{O})$                                                                         | A  | 1985-010a | Japan               | <i>Mineralogical Magazine</i> <b>51</b> (1987), 611                                                                                    | <i>Mineralogy and Petrology</i> <b>77</b> (2003), 25           |
| Okieite         | $[\text{Mg}_3(\text{H}_2\text{O})_{18}][\text{V}_{10}\text{O}_{28}]\cdot 10\text{H}_2\text{O}$                                                                                              | A  | 2018-080  | USA                 | <i>Canadian Mineralogist</i> <b>58</b> (2020), 125                                                                                     |                                                                |
| Okruginite      | $\text{Cu}_2\text{SnSe}_3$                                                                                                                                                                  | A  | 2022-096  | Russia              | <i>Mineralogical Magazine</i> <b>88</b> (2024), 31                                                                                     |                                                                |
| Okruschite      | $\text{Ca}_2\text{Mn}^{2+}_5\text{Be}_4(\text{AsO}_4)_6(\text{OH})_4(\text{H}_2\text{O})_6$                                                                                                 | A  | 2013-097  | Germany             | <i>European Journal of Mineralogy</i> <b>26</b> (2014), 589                                                                            |                                                                |

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|----------------|------------------------------------------------------------------|----|------------|----------------------------------|-----------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|
| Oldhamite      | CaS                                                              | G  | 1870       | India                            | <i>Philosophical Transactions of the Royal Society of London</i> <b>160</b> (1870), 195             | <i>Zeitschrift für Physikalische Chemie</i> <b>128</b> (1927), 135 |
| Oldsite-(K)    | $K_2Fe^{2+}[(UO_2)(SO_4)_2]_2(H_2O)_8$                           | Rn | 2025 s.p.  | USA                              | <i>Mineralogical Magazine</i> <b>87</b> (2023), 151                                                 |                                                                    |
| Olekminskite   | $Sr_2(CO_3)_2$                                                   | A  | 1989-047   | Russia                           | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>120(3)</b> (1991), 89               |                                                                    |
| Olenite        | $NaAl_3Al_6(Si_6O_{18})(BO_3)_3O_3(OH)$                          | A  | 1985-006   | Russia                           | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>115</b> (1986), 119                   | <i>European Journal of Mineralogy</i> <b>14</b> (2002), 935        |
| Olgafrankite   | $Ni_3Ge$                                                         | A  | 2024-048   | Russia                           | <i>American Mineralogist</i> <b>110</b> (2025), 1640                                                |                                                                    |
| Olgite         | $(Ba,Sr)(Na,Sr,REE)_2Na(PO_4)_2$                                 | A  | 1979-027   | Russia                           | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>109</b> (1980), 347                   | <i>Canadian Mineralogist</i> <b>43</b> (2005), 1521                |
| Olivenite      | $Cu_2(AsO_4)(OH)$                                                | G  | 1820       | United Kingdom                   | A System of Mineralogy, Vol. 2. Archibald Constable, Edinburgh (1820), 331                          | <i>Mineralogical Magazine</i> <b>82</b> (2018), 347                |
| Olkhonskite    | $Cr_2Ti_3O_9$                                                    | A  | 1993-035   | Russia                           | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>123(4)</b> (1994), 98               |                                                                    |
| Olmiite        | $CaMn[SiO_3(OH)](OH)$                                            | A  | 2006-026   | South Africa                     | <i>Mineralogical Magazine</i> <b>71</b> (2007), 193                                                 |                                                                    |
| Olmsteadite    | $KFe^{2+}_2NbO_2(PO_4)_2(H_2O)_2$                                | A  | 1974-034   | USA                              | <i>American Mineralogist</i> <b>61</b> (1976), 5                                                    |                                                                    |
| Olsacherite    | $Pb_2(Se^{6+}O_4)(SO_4)$                                         | A  | 1969-009   | Bolivia                          | <i>American Mineralogist</i> <b>54</b> (1969), 1519                                                 |                                                                    |
| Olsenite       | $KFe_4(PO_4)_3$                                                  | A  | 2022-100   | Somalia (meteorite)              | <i>American Mineralogist</i> <b>109</b> (2024), 2142                                                |                                                                    |
| Olshanskyite   | $Ca_2[B_3O_3(OH)_6](OH)(H_2O)_3$                                 | A  | 1968-025   | Russia                           | <i>Doklady Akademii Nauk SSSR</i> <b>184</b> (1969), 1398                                           | <i>Canadian Mineralogist</i> <b>39</b> (2001), 137                 |
| Olympite       | $LiNa_5(PO_4)_2$                                                 | A  | 1979-065   | Russia                           | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>109</b> (1980), 476                   | <i>Crystallography Reports</i> <b>39</b> (1994), 35                |
| Omariniite     | $Cu_8Fe_2ZnGe_2S_{12}$                                           | A  | 2016-050   | Argentina                        | <i>Mineralogical Magazine</i> <b>81</b> (2017), 1151                                                |                                                                    |
| Omeiite        | $OsAs_2$                                                         | A  | 1985-xxx ? | China                            | <i>Acta Geologica Sinica</i> <b>52</b> (1978), 163                                                  | <i>Acta Chemica Scandinavica</i> <b>A31</b> (1977), 253            |
| Ominelite      | $Fe^{2+}Al_3O_2(BO_3)(SiO_4)$                                    | A  | 1999-025   | Japan                            | <i>American Mineralogist</i> <b>87</b> (2002), 160                                                  | <i>American Mineralogist</i> <b>92</b> (2007), 863                 |
| Omongwaite     | $Na_2Ca_5(SO_4)_6(H_2O)_3$                                       | A  | 2003-054b  | Namibia                          | <i>Mineralogical Magazine</i> <b>72</b> (2008), 1307                                                |                                                                    |
| Omphacite      | $(Ca,Na)(Mg,Fe,Al)Si_2O_6$                                       | A  | 1988 s.p.  | Germany                          | Handbuch Der Mineralogie, Vol. 2. Craz und Gerlach, Freiberg (1815), 302                            | <i>Frontiers in Earth Sciences</i> <b>10</b> (2022), 694939        |
| Omsite         | $Ni_2Fe^{3+}(OH)_6[Sb(OH)_6]$                                    | A  | 2012-025   | France                           | <i>Mineralogical Magazine</i> <b>76</b> (2012), 1347                                                |                                                                    |
| Ondrušite      | $CaCu_4(AsO_4)_2(AsO_3OH)_2(H_2O)_{10}$                          | A  | 2008-010   | Czech Republic                   | <i>Canadian Mineralogist</i> <b>49</b> (2011), 885                                                  |                                                                    |
| Oneillite      | $Na_{15}Ca_3Mn_3Fe_3Zr_3Nb(Si_{25}O_{73})(O,OH,H_2O)_3(OH,Cl)_2$ | A  | 1998-064   | Canada                           | <i>Canadian Mineralogist</i> <b>37</b> (1999), 1295                                                 | <i>Canadian Mineralogist</i> <b>37</b> (1999), 865                 |
| Onoratoite     | $Sb_8O_{11}Cl_2$                                                 | A  | 1967-032   | Italy                            | <i>Mineralogical Magazine</i> <b>36</b> (1968), 1037                                                | <i>Solid State Sciences</i> <b>8</b> (2006), 849                   |
| Oosterboschite | $(Pd,Cu)_7Se_5$                                                  | A  | 1970-016   | Democratic Republic of the Congo | <i>Bulletin de la Société Française de Minéralogie et de Cristallographie</i> <b>93</b> (1970), 476 |                                                                    |

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|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|----|-----------|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|
| Ootannite            | $\text{Th}^{4+}_2\text{W}^{6+}_4\text{O}_{16}(\text{H}_2\text{O})_4 \cdot \text{H}_2\text{O}$                                                   | A  | 2023-039  | Australia                        | CNMNC Newsletter 76 - <i>Mineralogical Magazine</i> <b>88</b> (2024), 105; <i>European Journal of Mineralogy</i> <b>35</b> (2023), 1073 |                                                                         |
| Opal                 | $\text{SiO}_2 \cdot n\text{H}_2\text{O}$                                                                                                        | G  | ?         | unknown                          | original paper?                                                                                                                         | <i>American Mineralogist</i> <b>107</b> (2022), 1353                    |
| Ophirite             | $\text{Ca}_2\text{Mg}_4[\text{Zn}_2\text{Mn}^{3+}_2(\text{H}_2\text{O})_2(\text{Fe}^{3+}\text{W}_9\text{O}_{34})_2] \cdot 46\text{H}_2\text{O}$ | A  | 2013-017  | USA                              | <i>American Mineralogist</i> <b>99</b> (2014), 1045                                                                                     |                                                                         |
| Oppenheimerite       | $\text{Na}_2(\text{UO}_2)(\text{SO}_4)_2(\text{H}_2\text{O})_3$                                                                                 | A  | 2014-073  | USA                              | <i>Mineralogical Magazine</i> <b>79</b> (2015), 1123                                                                                    |                                                                         |
| Orcelite             | $\text{Ni}_{5-x}\text{As}_2$ ( $x \approx 0.25$ )                                                                                               | A  | 1962 s.p. | France (New Caledonia)           | <i>Comptes Rendus de l'Académie des Sciences de Paris</i> <b>249</b> (1959), 1771                                                       | <i>Journal of Alloys and Compounds</i> <b>601</b> (2014), 175           |
| Ordoñezite           | $\text{ZnSb}^{5+}_2\text{O}_6$                                                                                                                  | G  | 1955      | Mexico                           | <i>American Mineralogist</i> <b>40</b> (1955), 64                                                                                       | <i>Canadian Mineralogist</i> <b>40</b> (2002), 1207                     |
| Örebroite            | $\text{Mn}^{2+}_6(\text{Sb}^{5+}\text{Fe}^{3+})(\text{SiO}_4)_2\text{O}_6$                                                                      | A  | 1985-039  | Sweden                           | <i>American Mineralogist</i> <b>71</b> (1986), 1522                                                                                     |                                                                         |
| Oregonite            | $\text{FeNi}_2\text{As}_2$                                                                                                                      | A  | 1962 s.p. | USA                              | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1959), 239                                                                           |                                                                         |
| Oreillyite           | $\text{Cr}_2\text{N}$                                                                                                                           | A  | 2020-030a | Israel                           | <i>Minerals</i> <b>10</b> (2020), 1118                                                                                                  |                                                                         |
| Organovaite-Mn       | $\text{K}_2\text{MnNb}_4(\text{Si}_4\text{O}_{12})_2\text{O}_4 \cdot 5\text{-}7\text{H}_2\text{O}$                                              | A  | 2000-031  | Russia                           | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>130(2)</b> (2001), 46                                                   |                                                                         |
| Organovaite-Zn       | $\text{K}_2\text{Zn}(\text{Nb}, \text{Ti})_4(\text{Si}_4\text{O}_{12})_2(\text{O}, \text{OH})_4 \cdot 6\text{H}_2\text{O}$                      | A  | 2001-006  | Russia                           | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>131(1)</b> (2002), 29                                                   |                                                                         |
| Orickite             | $\text{CuFeS}_2 \cdot n\text{H}_2\text{O}$                                                                                                      | A  | 1978-059  | USA                              | <i>American Mineralogist</i> <b>68</b> (1983), 245                                                                                      |                                                                         |
| Orientite            | $\text{Ca}_8\text{Mn}^{3+}_{10}(\text{SiO}_4)_3(\text{Si}_3\text{O}_{10})_3(\text{OH})_{10}(\text{H}_2\text{O})_4$                              | G  | 1921      | Cuba                             | <i>American Journal of Science</i> <b>1</b> (1921), 491                                                                                 | <i>American Mineralogist</i> <b>71</b> (1986), 176                      |
| Orishchinite         | $\text{Ni}_2\text{P}$                                                                                                                           | A  | 2019-039  | Jordan                           | <i>Mineralogy and Petrology</i> <b>116</b> (2022), 369                                                                                  |                                                                         |
| Orlandiite           | $\text{Pb}_3\text{Cl}_4(\text{Se}^{4+}\text{O}_3)(\text{H}_2\text{O})$                                                                          | A  | 1998-038  | Italy                            | <i>Canadian Mineralogist</i> <b>37</b> (1999), 1493                                                                                     | <i>Canadian Mineralogist</i> <b>41</b> (2003), 1147                     |
| Orlovite             | $\text{KLi}_2\text{Ti}(\text{Si}_4\text{O}_{10})(\text{OF})$                                                                                    | A  | 2009-006  | Tajikistan                       | <i>New Data on Minerals</i> <b>46</b> (2011), 13                                                                                        | <i>European Journal of Mineralogy</i> <b>30</b> (2018), 399             |
| Orlymanite           | $\text{Ca}_4\text{Mn}^{2+}_3\text{Si}_8\text{O}_{20}(\text{OH})_6 \cdot 2\text{H}_2\text{O}$                                                    | A  | 1988-029  | South Africa                     | <i>American Mineralogist</i> <b>75</b> (1990), 923                                                                                      |                                                                         |
| Orpiment             | $\text{As}_2\text{S}_3$                                                                                                                         | G  | ?         | unknown                          | original paper?                                                                                                                         | <i>Zeitschrift für Kristallographie</i> <b>136</b> (1972), 48           |
| Orschallite          | $\text{Ca}_3(\text{S}^{4+}\text{O}_3)_2(\text{SO}_4)(\text{H}_2\text{O})_{12}$                                                                  | A  | 1990-041  | Germany                          | <i>Mineralogy and Petrology</i> <b>48</b> (1993), 167                                                                                   |                                                                         |
| Orthobrannerite      | $\text{U}^{4+}\text{U}^{6+}\text{Ti}_4\text{O}_{12}(\text{OH})_2$                                                                               | A  | 1982 s.p. | China                            | <i>Acta Geologica Sinica</i> <b>52</b> (1978), 241                                                                                      |                                                                         |
| Orthoclase           | $\text{K}(\text{AlSi}_3\text{O}_8)$                                                                                                             | A  | 1962 s.p. | unknown                          | Vollständige Charakteristik des Mineral-Systems. Arnoldische, Dresden (1823), 271                                                       | <i>European Journal of Mineralogy</i> <b>25</b> (2013), 597             |
| Orthocuproplatinum   | $\text{Pt}_3\text{Cu}$                                                                                                                          | A  | 2018-124  | Democratic Republic of the Congo | <i>Mineralogy and Petrology</i> <b>113</b> (2019), 527                                                                                  |                                                                         |
| Orthogersdorffite    | $\text{NiAsS}$                                                                                                                                  | Rn | 2022 s.p. | Austria                          | <i>Canadian Mineralogist</i> <b>24</b> (1986), 27                                                                                       | <i>American Mineralogist</i> <b>67</b> (1982), 1058                     |
| Orthojoaquinite-(Ce) | $\text{NaBa}_2\text{Fe}^{2+}\text{Ce}_2\text{Ti}_2(\text{SiO}_3)_8\text{O}_2(\text{O}, \text{OH})(\text{H}_2\text{O})$                          | A  | 1979-081b | USA                              | <i>American Mineralogist</i> <b>67</b> (1982), 809                                                                                      |                                                                         |
| Orthojoaquinite-(La) | $\text{NaBa}_2\text{Fe}^{2+}\text{La}_2\text{Ti}_2(\text{SiO}_3)_8\text{O}_2(\text{OH}, \text{O}, \text{F})(\text{H}_2\text{O})$                | Rd | 2000 s.p. | Denmark (Greenland)              | <i>Canadian Mineralogist</i> <b>39</b> (2001), 757                                                                                      |                                                                         |
| Orthominasragrite    | $\text{V}^{4+}\text{O}(\text{SO}_4)(\text{H}_2\text{O})_5$                                                                                      | A  | 2000-018  | USA                              | <i>Canadian Mineralogist</i> <b>39</b> (2001), 1325                                                                                     |                                                                         |
| Orthopinakolite      | $\text{Mg}_2\text{Mn}^{3+}\text{O}_2(\text{BO}_3)$                                                                                              | A  | 1962 s.p. | Sweden                           | <i>Arkiv för Mineralogi och Geologi</i> <b>2</b> (1960), 551                                                                            | <i>Canadian Mineralogist</i> <b>16</b> (1978), 475                      |
| Orthoserpierite      | $\text{CaCu}_4(\text{SO}_4)_2(\text{OH})_6(\text{H}_2\text{O})_3$                                                                               | A  | 1983-022a | France                           | <i>Schweizerische Mineralogische und Petrographische Mitteilungen</i> <b>65</b> (1985), 1                                               | <i>Acta Musei Moraviae, Scientiae Geologicae</i> <b>108</b> (2023), 213 |

|                  |                                                                                                     |    |           |                                  |                                                                                                                  |                                                                           |
|------------------|-----------------------------------------------------------------------------------------------------|----|-----------|----------------------------------|------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|
| Orthowalpurkite  | $(\text{UO}_2)\text{Bi}_4\text{O}_4(\text{AsO}_4)_2 \cdot 2\text{H}_2\text{O}$                      | A  | 1994-024  | Germany                          | <i>European Journal of Mineralogy</i> <b>7</b> (1995), 1313                                                      |                                                                           |
| Osakaite         | $\text{Zn}_4(\text{SO}_4)(\text{OH})_6(\text{H}_2\text{O}) \cdot 4\text{H}_2\text{O}$               | A  | 2006-049  | Japan                            | <i>Canadian Mineralogist</i> <b>45</b> (2007), 1511                                                              | <i>Acta Crystallographica</i> <b>B42</b> (1986), 32                       |
| Osarizawaite     | $\text{Pb}(\text{Al}_2\text{Cu}^{2+})(\text{SO}_4)_2(\text{OH})_6$                                  | Rd | 1987 s.p. | Japan                            | <i>Mineralogical Journal</i> <b>3</b> (1961), 181                                                                | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1980), 401             |
| Osarsite         | OsAsS                                                                                               | A  | 1971-025  | USA                              | <i>American Mineralogist</i> <b>57</b> (1972), 1029                                                              |                                                                           |
| Osbornite        | TiN                                                                                                 | G  | 1870      | India (meteorite)                | <i>Philosophical Transactions of the Royal Society of London</i> <b>160</b> (1870), 189                          | <i>Journal of Applied Crystallography</i> <b>29</b> (1996), 471           |
| Oscarkempffite   | $\text{Ag}_{10}\text{Pb}_4(\text{Sb}_{17}\text{Bi}_9)\text{S}_{48}$                                 | A  | 2011-029  | Bolivia                          | <i>Mineralogical Magazine</i> <b>80</b> (2016), 809                                                              |                                                                           |
| Oskarssonite     | $\text{AlF}_3$                                                                                      | A  | 2012-088  | Iceland                          | <i>Mineralogical Magazine</i> <b>78</b> (2014), 215                                                              |                                                                           |
| Osmium           | Os                                                                                                  | Rd | 1991 s.p. | Canada                           | <i>Philosophical Transactions of the Royal Society of London</i> <b>329</b> (1804), 411                          | <i>Canadian Mineralogist</i> <b>29</b> (1991), 231                        |
| Osumilite        | $\text{KFe}_2\text{Al}_3(\text{Al}_2\text{Si}_{10})\text{O}_{30}$                                   | G  | 1953      | Japan                            | <i>Proceedings of the Japan Academy</i> <b>29</b> (1953), 321                                                    | <i>Physics and Chemistry of Minerals</i> <b>37</b> (2010), 561            |
| Osumilite-(Mg)   | $\text{KMg}_2\text{Al}_3(\text{Al}_2\text{Si}_{10})\text{O}_{30}$                                   | A  | 2011-083  | Germany                          | <i>Zapiski Rossiyskogo Mineralogicheskogo Obshchestva</i> <b>141(4)</b> (2012), 27                               | <i>European Journal of Mineralogy</i> <b>20</b> (2008), 713               |
| Oswaldpeetersite | $(\text{UO}_2)_2(\text{CO}_3)(\text{OH})_2 \cdot 4\text{H}_2\text{O}$                               | A  | 2000-034  | USA                              | <i>Canadian Mineralogist</i> <b>39</b> (2001), 1685                                                              |                                                                           |
| Otavite          | $\text{Cd}(\text{CO}_3)$                                                                            | G  | 1906      | Namibia                          | <i>Centralblatt für Mineralogie, Geologie und Paläontologie</i> (1906), 388                                      | <i>European Journal of Mineralogy</i> <b>28</b> (2016), 285               |
| Otjissimeite     | $\text{PbGe}_4\text{O}_9$                                                                           | A  | 1978-080  | Namibia                          | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1981), 49                                                     |                                                                           |
| Ottemannite      | $\text{Sn}_2\text{S}_3$                                                                             | A  | 1968 s.p. | Bolivia                          | <i>Fortschritte der Mineralogie</i> <b>42</b> (1966), 211                                                        | <i>Journal of Solid State Chemistry</i> <b>175</b> (2003), 359            |
| Ottensite        | $\text{Na}_3(\text{Sb}_2\text{O}_3)_3(\text{SbS}_3) \cdot 3\text{H}_2\text{O}$                      | A  | 2006-014  | China                            | <i>Mineralogical Record</i> <b>38</b> (2007), 77                                                                 | <i>Mineralogy and Petrology</i> <b>109</b> (2015), 431                    |
| Ottobahnite      | $\text{Na}_6(\text{UO}_2)_2(\text{SO}_4)_5(\text{H}_2\text{O})_7 \cdot 1.5\text{H}_2\text{O}$       | A  | 2015-098  | USA                              | <i>Mineralogical Magazine</i> <b>81</b> (2017), 753                                                              |                                                                           |
| Ottoite          | $\text{Pb}_2\text{TeO}_5$                                                                           | A  | 2009-063  | USA                              | <i>American Mineralogist</i> <b>95</b> (2010), 1329                                                              |                                                                           |
| Ottrélite        | $\text{Mn}^{2+}\text{Al}_2\text{O}(\text{SiO}_4)(\text{OH})_2$                                      | G  | 1842      | Belgium                          | <i>Annales des Mines</i> <b>2</b> (1842), 357                                                                    | <i>Bulletin de Minéralogie</i> <b>101</b> (1978), 548                     |
| Otwayite         | $\text{Ni}_2(\text{CO}_3)(\text{OH})_2 \cdot \text{H}_2\text{O}$                                    | A  | 1976-028  | Australia                        | <i>American Mineralogist</i> <b>62</b> (1977), 999                                                               | <i>Neues Jahrbuch für Mineralogie Abhandlungen</i> <b>183</b> (2006), 107 |
| Oulankaite       | $\text{Pd}_5\text{Cu}_4\text{SnTe}_2\text{S}_2$                                                     | A  | 1990-055  | Russia                           | <i>European Journal of Mineralogy</i> <b>8</b> (1996), 311                                                       | <i>Canadian Mineralogist</i> <b>42</b> (2004), 439                        |
| Ourayite         | $\text{Ag}_3\text{Pb}_4\text{Bi}_5\text{S}_{13}$                                                    | A  | 1976-007  | USA                              | <i>Neues Jahrbuch für Mineralogie Abhandlungen</i> <b>131</b> (1977), 56                                         | <i>Canadian Mineralogist</i> <b>22</b> (1984), 565                        |
| Oursinite        | $\text{Co}(\text{UO}_2)_2(\text{SiO}_3\text{OH})_2(\text{H}_2\text{O})_4 \cdot 2\text{H}_2\text{O}$ | A  | 1982-051  | Democratic Republic of the Congo | <i>Bulletin de Minéralogie</i> <b>106</b> (1983), 305                                                            | <i>Minerals</i> <b>8</b> (2018), 551                                      |
| Ovamboite        | $\text{Cu}_{10}\text{Fe}_3\text{WGe}_3\text{S}_{16}$                                                | A  | 1992-039  | Namibia                          | <i>Transactions (Doklady) of the Russian Academy of Sciences, Earth Science Section</i> <b>393A</b> (2003), 1329 |                                                                           |
| Overite          | $\text{CaMgAl}(\text{PO}_4)_2(\text{OH})(\text{H}_2\text{O})_4$                                     | G  | 1940      | USA                              | <i>American Mineralogist</i> <b>25</b> (1940), 315                                                               | <i>American Mineralogist</i> <b>62</b> (1977), 692                        |
| Owensite         | $(\text{Ba},\text{Pb})_6(\text{Cu}^{1+},\text{Fe},\text{Ni})_{25}\text{S}_{27}$                     | A  | 1993-061  | Canada                           | <i>Canadian Mineralogist</i> <b>33</b> (1995), 665                                                               | <i>Canadian Mineralogist</i> <b>33</b> (1995), 671                        |
| Owyheeite        | $\text{Ag}_3\text{Pb}_{10}\text{Sb}_{11}\text{S}_{28}$                                              | G  | 1921      | USA                              | <i>American Mineralogist</i> <b>6</b> (1921), 82                                                                 | <i>Acta Crystallographica</i> <b>B79</b> (2023), 271                      |
| Oxammite         | $(\text{NH}_4)_2(\text{C}_2\text{O}_4)(\text{H}_2\text{O})$                                         | G  | 1870      | Peru                             | <i>Rural Carolinian</i> <b>1</b> (1870), 469                                                                     | <i>Acta Crystallographica</i> <b>B28</b> (1972), 3340                     |

|                          |                                                                                                                          |    |           |                           |                                                                                                                                        |                                                                                             |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------|----|-----------|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| Oxo-magnesio-hastingsite | $\text{NaCa}_2(\text{Mg}_2\text{Fe}^{3+}_3)(\text{Si}_6\text{Al}_2)\text{O}_{22}\text{O}_2$                              | Rd | 2012 s.p. | Tanzania                  | <i>Mineralogical Magazine</i> <b>77</b> (2013), 2773                                                                                   |                                                                                             |
| Oxo-mangani-leakeite     | $\text{NaNa}_2(\text{Mn}^{3+}_4\text{Li})\text{Si}_6\text{O}_{22}\text{O}_2$                                             | A  | 2015-035  | Australia                 | <i>Mineralogical Magazine</i> <b>80</b> (2016), 1013                                                                                   | <i>Mineralogical Magazine</i> <b>81</b> (2017), 707                                         |
| Oxybismutomicrolite      | $(\text{Bi}_{1.33}\square_{0.67})\text{Ta}_2\text{O}_6\text{O}$                                                          | A  | 2019-047  | Russia                    | <i>Mineralogical Magazine</i> <b>84</b> (2020), 444                                                                                    |                                                                                             |
| Oxycalcimicrolite        | $\text{Ca}_2\text{Ta}_2\text{O}_7$                                                                                       | A  | 2019-110  | Brazil                    | <i>Mineralogical Magazine</i> <b>84</b> (2020), 854                                                                                    |                                                                                             |
| Oxycalciochlorite        | $\text{Ca}_2\text{Nb}_2\text{O}_6\text{O}$                                                                               | Rd | 2010 s.p. | Czech Republic            | <i>Canadian Mineralogist</i> <b>17</b> (1979), 583                                                                                     | <i>Minerals</i> <b>8</b> (2018), 277                                                        |
| Oxycalcioroméite         | $\text{Ca}_2\text{Sb}^{5+}_2\text{O}_7$                                                                                  | A  | 2012-022  | Italy                     | <i>Mineralogical Magazine</i> <b>77</b> (2013), 3027                                                                                   |                                                                                             |
| Oxy-chromium-dravite     | $\text{NaCr}_3(\text{Cr}_4\text{Mg}_2)(\text{Si}_6\text{O}_{18})(\text{BO}_3)_3(\text{OH})_3\text{O}$                    | A  | 2011-097  | Russia                    | <i>American Mineralogist</i> <b>97</b> (2012), 2024                                                                                    | <i>Physics and Chemistry of Minerals</i> <b>42</b> (2015), 441                              |
| Oxy-dravite              | $\text{Na}(\text{Al}_2\text{Mg})(\text{Al}_5\text{Mg})(\text{Si}_6\text{O}_{18})(\text{BO}_3)_3(\text{OH})_3\text{O}$    | A  | 2012-004a | Kenya                     | <i>American Mineralogist</i> <b>98</b> (2013), 1442                                                                                    | <i>Mineralogical Magazine</i> <b>87</b> (2023), 719                                         |
| Oxy-foitite              | $\square(\text{Fe}^{2+}\text{Al}_2)\text{Al}_6(\text{Si}_6\text{O}_{18})(\text{BO}_3)_3(\text{OH})_3\text{O}$            | A  | 2016-069  | Australia                 | <i>European Journal of Mineralogy</i> <b>29</b> (2017), 889                                                                            |                                                                                             |
| Oxykinoshitalite         | $\text{BaMg}_2\text{Ti}^{4+}\text{O}_2(\text{Si}_2\text{Al}_2)\text{O}_{10}$                                             | A  | 2004-013  | Brazil                    | <i>Canadian Mineralogist</i> <b>43</b> (2005), 1501                                                                                    |                                                                                             |
| Oxynatromicrolite        | $(\text{Na}, \text{Ca}, \text{U})_2(\text{Ta}, \text{Nb})_2\text{O}_6(\text{O}, \text{F})$                               | A  | 2013-063  | China                     | <i>Mineralogical Magazine</i> <b>81</b> (2017), 743                                                                                    |                                                                                             |
| Oxyphlogopite            | $\text{K}(\text{Mg}, \text{Ti}, \text{Fe})_3[(\text{Si}, \text{Al})_4\text{O}_{10}](\text{O}, \text{F})_2$               | A  | 2009-069  | Germany                   | <i>Zapiski Rossiyskogo Mineralogicheskogo Obshchestva</i> <b>139(3)</b> (2010), 31                                                     | <i>Physics and Chemistry of Minerals</i> <b>46</b> (2019), 899                              |
| Oxylumbopyrochlore       | $\text{Pb}_2\text{Nb}_2\text{O}_6\text{O}$                                                                               | A  | 2024-026  | China                     | CNMNC Newsletter 81 - <i>Mineralogical Magazine</i> <b>88</b> (2024), 632; <i>European Journal of Mineralogy</i> <b>36</b> (2024), 917 |                                                                                             |
| Oxylumboroméite          | $\text{Pb}_2\text{Sb}_2\text{O}_7$                                                                                       | A  | 2013-042  | Sweden                    | <i>Mineralogical Magazine</i> <b>77</b> (2013), 2931                                                                                   | <i>Mineralogical Magazine</i> <b>81</b> (2017), 1287                                        |
| Oxy-schorl               | $\text{Na}(\text{Fe}^{2+}_2\text{Al})\text{Al}_6(\text{Si}_6\text{O}_{18})(\text{BO}_3)_3(\text{OH})_3\text{O}$          | A  | 2011-011  | Czech Republic / Slovakia | <i>American Mineralogist</i> <b>98</b> (2013), 485                                                                                     | <i>Lithos</i> <b>308-309</b> (2018), 395                                                    |
| Oxystannomicrolite       | $\text{Sn}_2\text{Ta}_2\text{O}_6\text{O}$                                                                               | Rd | 2010 s.p. | Finland                   | <i>Bulletin de la Commission Géologique de Finlande</i> <b>229</b> (1967), 173                                                         | <i>Canadian Mineralogist</i> <b>48</b> (2010), 673                                          |
| Oxystibiomicrolite       | $(\text{Sb}^{3+}, \text{Ca})_2\text{Ta}_2\text{O}_6\text{O}$                                                             | Rd | 2010 s.p. | Sweden                    | <i>Geologiska Foreningens i Stockholm Forhandlingar</i> <b>109</b> (1987), 105                                                         | <i>Canadian Mineralogist</i> <b>48</b> (2010), 673                                          |
| Oxy-vanadium-dravite     | $\text{NaV}_3(\text{V}_4\text{Mg}_2)(\text{Si}_6\text{O}_{18})(\text{BO}_3)_3(\text{OH})_3\text{O}$                      | Rd | 2012 s.p. | Russia                    | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>130(2)</b> (2001), 59                                                  | <i>American Mineralogist</i> <b>98</b> (2013), 501                                          |
| Oxyvanite                | $\text{V}^{3+}_2\text{V}^{4+}\text{O}_5$                                                                                 | A  | 2008-044  | Russia                    | <i>Zapiski Rossiyskogo Mineralogicheskogo Obshchestva</i> <b>138(3)</b> (2009), 70                                                     | <i>European Journal of Mineralogy</i> <b>21</b> (2009), 885                                 |
| Oxyttrobetafite-(Y)      | $\text{Y}_2\text{Ti}_2\text{O}_6\text{O}$                                                                                | A  | 2022-002  | Japan                     | <i>Journal of Mineralogical and Petrological Sciences</i> <b>117</b> (2022), 220728                                                    |                                                                                             |
| Oyelite                  | $\text{Ca}_5\text{BSi}_4\text{O}_{13}(\text{OH})_3(\text{H}_2\text{O})_4$                                                | A  | 1980-103  | Japan                     | <i>Journal of the Japanese Association of Mineralogists, Petrologists and Economic Geologists</i> <b>79</b> (1984), 267                | <i>European Journal of Mineralogy</i> <b>31</b> (2019), 595                                 |
| Oyonite                  | $\text{Ag}_3\text{Mn}_2\text{Pb}_4\text{Sb}_7\text{As}_4\text{S}_{24}$                                                   | A  | 2018-002  | Peru                      | <i>Minerals</i> <b>8</b> (2018), 192                                                                                                   |                                                                                             |
| Ozernovskite             | $\text{Fe}^{3+}_4(\text{Te}^{4+}\text{O}_4)(\text{Te}^{4+}\text{O}_3)_4(\text{H}_2\text{O})_2 \cdot 5\text{H}_2\text{O}$ | A  | 2021-059  | Russia                    | CNMNC Newsletter 63 - <i>Mineralogical Magazine</i> <b>85</b> (2021), 910; <i>European Journal of Mineralogy</i> <b>33</b> (2021), 639 | <a href="https://doi.org/10.1180/mgm.2026.10193">https://doi.org/10.1180/mgm.2026.10193</a> |
| Ozerovaité               | $\text{Na}_2\text{KAl}_3(\text{AsO}_4)_4$                                                                                | A  | 2016-019  | Russia                    | <i>European Journal of Mineralogy</i> <b>31</b> (2019), 159                                                                            |                                                                                             |
| Pääkkönenite             | $\text{Sb}_2\text{AsS}_2$                                                                                                | A  | 1980-063  | Finland                   | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>110</b> (1981), 480                                                      | <i>American Mineralogist</i> <b>80</b> (1995), 1054                                         |
| Paarite                  | $\text{Cu}_{1.7}\text{Pb}_{1.7}\text{Bi}_{6.3}\text{S}_{12}$                                                             | A  | 2001-016  | Austria                   | <i>Canadian Mineralogist</i> <b>43</b> (2005), 909                                                                                     | <i>Canadian Mineralogist</i> <b>39</b> (2001), 1377                                         |

|                        |                                                                                                                                                     |   |           |                         |                                                                                                    |                                                                |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|---|-----------|-------------------------|----------------------------------------------------------------------------------------------------|----------------------------------------------------------------|
| Pabellóndepicaite      | $\text{Cu}_2^{2+}(\text{N}_3\text{C}_2\text{H}_2)_2(\text{NH}_3)_2(\text{NO}_3)\text{Cl}\cdot 2\text{H}_2\text{O}$                                  | A | 2023-104  | Chile                   | <i>Mineralogical Magazine</i> <b>89</b> (2025), 141                                                |                                                                |
| Pabstite               | $\text{BaSnSi}_3\text{O}_9$                                                                                                                         | A | 1964-022  | USA                     | <i>American Mineralogist</i> <b>50</b> (1965), 1164                                                | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1987), 16   |
| Paceite                | $\text{CaCu}(\text{CH}_3\text{COO})_4(\text{H}_2\text{O})_2\cdot 4\text{H}_2\text{O}$                                                               | A | 2001-030  | Australia               | <i>Mineralogical Magazine</i> <b>66</b> (2002), 459                                                | <i>Spectrochimica Acta</i> <b>A67</b> (2007), 649              |
| Pachnolite             | $\text{NaCaAlF}_6(\text{H}_2\text{O})$                                                                                                              | G | 1863      | Denmark (Greenland)     | <i>Annalen der Chemie und Pharmacie</i> <b>127</b> (1863), 61                                      | <i>Canadian Mineralogist</i> <b>21</b> (1983), 561             |
| Packratite             | $\text{Ca}_{11}(\text{H}_2\text{O})_{59}(\text{As}^{3+}\text{V}^{5+}_{10}\text{V}^{4+}_2\text{As}^{5+}_6\text{O}_{51})_2\cdot 24\text{H}_2\text{O}$ | A | 2014-059  | USA                     | <i>Canadian Mineralogist</i> <b>54</b> (2016), 145                                                 |                                                                |
| Paddlewheelite         | $\text{MgCa}_5\text{Cu}_2(\text{UO}_2)_4(\text{CO}_3)_{12}(\text{H}_2\text{O})_{33}$                                                                | A | 2017-098  | Czech Republic          | <i>Minerals</i> <b>8</b> (2018), 511                                                               |                                                                |
| Padëraite              | $\text{Cu}_7[(\text{Cu},\text{Ag})_{0.33}\text{Pb}_{1.33}\text{Bi}_{11.33}]\text{S}_{22}$                                                           | A | 1983-091  | Romania                 | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1985), 557                                      | <i>Canadian Mineralogist</i> <b>44</b> (2006), 481             |
| Padmaite               | $\text{PdBiSe}$                                                                                                                                     | A | 1990-048  | Russia                  | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>120(3)</b> (1991), 85              |                                                                |
| Paganoite              | $\text{NiBi}^{3+}\text{O}(\text{AsO}_4)$                                                                                                            | A | 1999-043  | Germany                 | <i>European Journal of Mineralogy</i> <b>13</b> (2001), 167                                        |                                                                |
| Pahasapaite            | $\text{Li}_8(\text{Ca},\text{Li},\text{K})_{10}\text{Be}_{24}(\text{PO}_4)_{24}\cdot 38\text{H}_2\text{O}$                                          | A | 1983-060b | USA                     | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1987), 433                                      | <i>American Mineralogist</i> <b>74</b> (1989), 1195            |
| Painite                | $\text{CaZrAl}_9\text{O}_{15}(\text{BO}_3)$                                                                                                         | G | 1957      | Myanmar                 | <i>Mineralogical Magazine</i> <b>31</b> (1957), 420                                                | <i>American Mineralogist</i> <b>89</b> (2004), 610             |
| Pakhomovskiyite        | $\text{Co}_3(\text{PO}_4)_2(\text{H}_2\text{O})_8$                                                                                                  | A | 2004-021  | Russia                  | <i>Canadian Mineralogist</i> <b>44</b> (2006), 117                                                 |                                                                |
| Palarstanide           | $\text{Pd}_5(\text{Sn},\text{As})_2$                                                                                                                | A | 1976-058  | Russia                  | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>110</b> (1981), 487                  |                                                                |
| Palenzonaite           | $(\text{NaCa}_2)\text{Mn}^{2+}_2(\text{VO}_4)_3$                                                                                                    | A | 1986-011  | Italy                   | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1987), 136                                      | <i>Mineralogical Magazine</i> <b>76</b> (2012), 1081           |
| Palermoite             | $\text{Li}_2\text{SrAl}_4(\text{PO}_4)_4(\text{OH})_4$                                                                                              | G | 1953      | USA                     | <i>American Mineralogist</i> <b>38</b> (1953), 354                                                 | <i>American Mineralogist</i> <b>60</b> (1975), 460             |
| Palladinite            | $\text{PdO}$                                                                                                                                        | Q | 1837      | Brazil                  | <i>Journal für Praktische Chemie</i> <b>11</b> (1837), 311                                         | <i>Canadian Mineralogist</i> <b>36</b> (1998), 887             |
| Palladium              | $\text{Pd}$                                                                                                                                         | G | 1803      | Brazil                  | <i>Philosophical Transactions of the Royal Society of London</i> <b>93</b> (1803), 290             | <i>Mineralogical Magazine</i> <b>77</b> (2013), 269            |
| Palladoarsenide        | $\text{Pd}_2\text{As}$                                                                                                                              | A | 1973-005  | Russia                  | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>103</b> (1974), 104                  | <i>Journal of the Less-Common Metals</i> <b>19</b> (1969), 300 |
| Palladobismutharsenide | $\text{Pd}_2(\text{As},\text{Bi})$                                                                                                                  | A | 1975-017  | USA                     | <i>Canadian Mineralogist</i> <b>14</b> (1976), 410                                                 |                                                                |
| Palladodymite          | $\text{Pd}_2\text{As}$                                                                                                                              | A | 1997-028  | Russia                  | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>128(2)</b> (1999), 39              |                                                                |
| Palladogermanide       | $\text{Pd}_2\text{Ge}$                                                                                                                              | A | 2016-086  | Canada                  | <i>Canadian Mineralogist</i> <b>59</b> (2021), 1865                                                |                                                                |
| Palladosilicide        | $\text{Pd}_2\text{Si}$                                                                                                                              | A | 2014-080  | Tanzania / South Africa | <i>Mineralogical Magazine</i> <b>79</b> (2015), 295                                                |                                                                |
| Palladothallite        | $\text{Pd}_3\text{Tl}$                                                                                                                              | A | 2019-009a | Russia                  | <i>Canadian Mineralogist</i> <b>59</b> (2021), 1821                                                |                                                                |
| Palladseite            | $\text{Pd}_{17}\text{Se}_{15}$                                                                                                                      | A | 1975-026  | Brazil                  | <i>Mineralogical Magazine</i> <b>41</b> (1977), 123                                                | <i>Journal of Geosciences</i> <b>66</b> (2021), 205            |
| Palmierite             | $\text{K}_2\text{Pb}(\text{SO}_4)_2$                                                                                                                | G | 1907      | Italy                   | <i>Comptes Rendus Hebdomadaires des Séances de l'Académie des Sciences</i> <b>144</b> (1907), 1397 | <i>Powder Diffraction</i> <b>16</b> (2001), 92                 |
| Palygorskite           | $(\text{Mg},\text{Al})_2\text{Si}_4\text{O}_{10}(\text{OH})\cdot 4\text{H}_2\text{O}$                                                               | G | 1862      | Russia                  | <i>Russisch-kaiserlichen Gesellschaft für die Gesamte Mineralogie</i> (1862), 102                  | <i>American Mineralogist</i> <b>93</b> (2008), 667             |
| Pampaloite             | $\text{AuSbTe}$                                                                                                                                     | A | 2017-096  | Finland                 | <i>Mineralogical Magazine</i> <b>83</b> (2019), 393                                                | <i>Minerals</i> <b>12</b> (2022), 1274                         |
| Panasqueiraite         | $\text{CaMg}(\text{PO}_4)(\text{OH})$                                                                                                               | A | 1978-063  | Portugal                | <i>Canadian Mineralogist</i> <b>19</b> (1981), 389                                                 |                                                                |

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|------------------------|-----------------------------------------------------------------------------------------------------------------|----|-----------|--------------------|----------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|
| Pandoraite-Ba          | $\text{BaV}^{4+}_5\text{V}^{5+}_2\text{O}_{16}(\text{H}_2\text{O})_3$                                           | A  | 2018-024  | USA                | <i>Canadian Mineralogist</i> <b>57</b> (2019), 255                                                                                     |                                                                                 |
| Pandoraite-Ca          | $\text{CaV}^{4+}_5\text{V}^{5+}_2\text{O}_{16}(\text{H}_2\text{O})_3$                                           | A  | 2018-036  | USA                | <i>Canadian Mineralogist</i> <b>57</b> (2019), 255                                                                                     |                                                                                 |
| Panethite              | $(\text{Na}, \text{Ca}, \text{K})_{1-x}(\text{Mg}, \text{Fe}^{2+}, \text{Mn})\text{PO}_4$                       | A  | 1966-035  | USA                | <i>Geochimica et Cosmochimica Acta</i> <b>31</b> (1967), 1711                                                                          |                                                                                 |
| Panguite               | $(\text{Ti}, \text{Al}, \text{Sc}, \text{Mg}, \text{Zr}, \text{Ca})_{1.8}\text{O}_3$                            | A  | 2010-057  | Mexico (meteorite) | <i>American Mineralogist</i> <b>97</b> (2012), 1219                                                                                    |                                                                                 |
| Panichiite             | $(\text{NH}_4)_2\text{SnCl}_6$                                                                                  | A  | 2008-005  | Italy              | <i>Canadian Mineralogist</i> <b>47</b> (2009), 367                                                                                     |                                                                                 |
| Panskyite              | $\text{Pd}_9\text{Ag}_2\text{Pb}_2\text{S}_4$                                                                   | A  | 2020-039  | Russia             | <i>Mineralogical Magazine</i> <b>85</b> (2021), 161                                                                                    |                                                                                 |
| Pansnerite             | $\text{K}_3\text{Na}_3\text{Fe}^{3+}_6(\text{AsO}_4)_8$                                                         | A  | 2016-103  | Russia             | <i>Mineralogical Magazine</i> <b>84</b> (2020), 143                                                                                    |                                                                                 |
| Panunzite              | $\text{K}_3\text{Na}(\text{AlSiO}_4)_4$                                                                         | A  | 1978-050  | Italy              | <i>American Mineralogist</i> <b>73</b> (1988), 420                                                                                     | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1985), 322                   |
| Paolovite              | $\text{Pd}_2\text{Sn}$                                                                                          | A  | 1972-025  | Russia             | <i>Geologiya Rudnykh Mestorozhdeniy</i> <b>16</b> (1974), 98                                                                           | <i>Materials Research Bulletin</i> <b>42</b> (2007), 1969                       |
| Papagoite              | $\text{CaCuAlSi}_2\text{O}_6(\text{OH})_3$                                                                      | A  | 1962 s.p. | USA                | <i>American Mineralogist</i> <b>45</b> (1960), 599                                                                                     | <i>Mineralogy and Petrology</i> <b>37</b> (1987), 89                            |
| Papikeite              | $\text{NaFe}^{2+}_2(\text{Mg}_3\text{Al}_2)(\text{Si}_5\text{Al}_3)\text{O}_{22}(\text{OH})_2$                  | A  | 2022-145  | Norway             | CNMNC Newsletter 74 - <i>Mineralogical Magazine</i> <b>87</b> (2023), 783; <i>European Journal of Mineralogy</i> <b>35</b> (2023), 659 |                                                                                 |
| Paqueite               | $\text{Ca}_3\text{TiSi}_2(\text{Al}, \text{Ti}, \text{Si})_3\text{O}_{14}$                                      | A  | 2013-053  | Mexico (meteorite) | <i>Meteoritics &amp; Planetary Science</i> <b>57</b> (2022), 1300                                                                      |                                                                                 |
| Para-alumohydrocalcite | $\text{CaAl}_2(\text{CO}_3)_2(\text{OH})_4 \cdot 6\text{H}_2\text{O}$                                           | A  | 1976-027  | Russia             | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>106</b> (1977), 336                                                      |                                                                                 |
| Paraberkeliite         | $\text{NaCaCaMg}_2(\text{AsO}_4)_3$                                                                             | A  | 2018-001  | Russia             | <i>Mineralogical Magazine</i> <b>86</b> (2022), 103                                                                                    |                                                                                 |
| Parabrandtite          | $\text{Ca}_2\text{Mn}^{2+}(\text{AsO}_4)_2(\text{H}_2\text{O})_2$                                               | A  | 1986-009  | USA                | <i>Neues Jahrbuch für Mineralogie Abhandlungen</i> <b>157</b> (1987), 113                                                              |                                                                                 |
| Parabuterite           | $\text{Fe}^{3+}(\text{SO}_4)(\text{OH})(\text{H}_2\text{O})_2$                                                  | G  | 1938      | Chile              | <i>American Mineralogist</i> <b>23</b> (1938), 669                                                                                     | <i>Acta Crystallographica</i> <b>B73</b> (2017), 856                            |
| Paracelsian            | $\text{Ba}(\text{Al}_2\text{Si}_2\text{O}_8)$                                                                   | G  | 1905      | Italy              | <i>Rendiconti del Regio Istituto Lombardo di Scienze e Lettere, Serie II</i> <b>38</b> (1905), 636                                     | <i>Scientific Reports</i> <b>9</b> (2019), 12652                                |
| Paracoquimbite         | $\text{Fe}^{3+}_4(\text{SO}_4)_6(\text{H}_2\text{O})_{12} \cdot 6\text{H}_2\text{O}$                            | Rd | 2019 s.p. | Chile              | <i>Comptes Rendus de l'Académie des Sciences de Paris</i> <b>197</b> (1933), 1132                                                      | <i>European Journal of Mineralogy</i> <b>30</b> (2018), 849                     |
| Paracostibite          | $\text{CoSbS}$                                                                                                  | A  | 1969-023  | Canada             | <i>Canadian Mineralogist</i> <b>10</b> (1970), 232                                                                                     | <i>Canadian Mineralogist</i> <b>13</b> (1975), 188                              |
| Paradamite             | $\text{Zn}_2(\text{AsO}_4)(\text{OH})$                                                                          | G  | 1956      | Mexico             | <i>Science</i> <b>123</b> (1956), 1039                                                                                                 | <i>Journal of Mineralogical and Petrological Sciences</i> <b>111</b> (2016), 35 |
| Paradimorphite         | $\text{As}_4\text{S}_3$                                                                                         | A  | 2020-101  | Italy              | <i>Mineralogical Magazine</i> <b>86</b> (2022), 500                                                                                    |                                                                                 |
| Paradocrasite          | $\text{Sb}_2(\text{Sb}, \text{As})_2$                                                                           | A  | 1969-011  | Australia          | <i>American Mineralogist</i> <b>56</b> (1971), 1127                                                                                    |                                                                                 |
| Parádsasvárite         | $\text{Zn}_2(\text{CO}_3)(\text{OH})_2$                                                                         | A  | 2012-077  | Hungary            | <i>Mineralogy and Petrology</i> <b>109</b> (2015), 405                                                                                 | <i>Canadian Mineralogist</i> <b>55</b> (2017), 1027                             |
| Paraershovite          | $\text{Na}_3\text{K}_3\text{Fe}^{3+}_2(\text{Si}_4\text{O}_{10}\text{OH})_2(\text{OH})_2(\text{H}_2\text{O})_4$ | A  | 2009-025  | Russia             | <i>Canadian Mineralogist</i> <b>48</b> (2010), 279                                                                                     |                                                                                 |
| Parafiniukite          | $\text{Ca}_2\text{Mn}_3(\text{PO}_4)_3\text{Cl}$                                                                | A  | 2018-047  | Poland             | <i>Minerals</i> <b>8</b> (2018), 485                                                                                                   |                                                                                 |
| Parafransoletite       | $\text{Ca}_3\text{Be}_2(\text{PO}_4)_2(\text{PO}_3\text{OH})_2(\text{H}_2\text{O})_4$                           | A  | 1989-049  | USA                | <i>American Mineralogist</i> <b>77</b> (1992), 843                                                                                     | <i>American Mineralogist</i> <b>77</b> (1992), 848                              |
| Parageorgbokiite       | $\text{Cu}_5\text{O}_2(\text{SeO}_3)_2\text{Cl}_2$                                                              | A  | 2006-001  | Russia             | <i>Proceedings of the Russian Mineralogical Society</i> <b>135(4)</b> (2006), 24                                                       | <i>Canadian Mineralogist</i> <b>45</b> (2007), 929                              |
| Paragersdorffite       | $\text{NiAsS}$                                                                                                  | Rn | 2022 s.p. | Austria            | <i>Canadian Mineralogist</i> <b>24</b> (1986), 27                                                                                      | <i>American Mineralogist</i> <b>53</b> (1968), 290                              |
| Paragonite             | $\text{NaAl}_2(\text{Si}_3\text{Al})\text{O}_{10}(\text{OH})_2$                                                 | A  | 1998 s.p. | Switzerland        | <i>Annalen der Chemie und Pharmacie</i> <b>46</b> (1843), 325                                                                          | <i>Physics and Chemistry of Minerals</i> <b>27</b> (2000), 377                  |
| Paraguanajuatite       | $\text{Bi}_2\text{Se}_3$                                                                                        | G  | 1948      | Mexico             | <i>Bolletín de Mineralogia de Mexico</i> <b>20</b> (1948), 1                                                                           | <i>Acta Crystallographica</i> <b>B75</b> (2019), 717                            |

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| Parahibbingite      | $\text{Fe}^{2+}_2(\text{OH})_3\text{Cl}$                                                                                                                        | A  | 2020-038a | South Africa    | <i>American Mineralogist</i> <b>107</b> (2022), 826                                                                                    | <i>Mineralogical Magazine</i> <b>86</b> (2022), 891                                         |
| Parahopeite         | $\text{Zn}_3(\text{PO}_4)_2(\text{H}_2\text{O})_4$                                                                                                              | G  | 1908      | Zambia          | <i>Mineralogical Magazine</i> <b>15</b> (1908), 1                                                                                      | <i>Chemistry - A European Journal</i> <b>10</b> (2004), 2795                                |
| Parakeldyshite      | $\text{Na}_2\text{ZrSi}_2\text{O}_7$                                                                                                                            | A  | 1975-035  | Russia          | <i>Doklady Akademii Nauk SSSR</i> <b>237</b> (1977), 703                                                                               | <i>Crystals</i> <b>10</b> (2020), 1016                                                      |
| Parakuzmenkoite-Fe  | $(\text{K,Ba})_8\text{Fe}_4\text{Ti}_{16}(\text{Si}_4\text{O}_{12})_8(\text{OH,O})_{16} \cdot 20\text{-}28\text{H}_2\text{O}$                                   | A  | 2001-007  | Russia          | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>130(6)</b> (2001), 63                                                  |                                                                                             |
| Paralabuntsovite-Mg | $\text{Na}_8\text{K}_8\text{Mg}_4\text{Ti}_{16}(\text{Si}_4\text{O}_{12})_8(\text{OH,O})_{16} \cdot 20\text{-}24\text{H}_2\text{O}$                             | A  | 2000 s.p. | USA             | <i>Geological Society of America Bulletin</i> <b>64</b> (1958), 1614                                                                   |                                                                                             |
| Paralammerite       | $\text{Cu}_3(\text{AsO}_4)_2$                                                                                                                                   | Rn | 2009-002  | Russia          | <i>Zapiski Rossiyskogo Mineralogicheskogo Obshchestva</i> <b>140(5)</b> (2011), 46                                                     |                                                                                             |
| Paralaurionite      | $\text{PbCl}(\text{OH})$                                                                                                                                        | G  | 1899      | Greece          | <i>Mineralogical Magazine</i> <b>12</b> (1899), 102                                                                                    | <i>Mineralogical Magazine</i> <b>57</b> (1993), 323                                         |
| Paralomonosovite    | $\text{Na}_2\Box_4\text{Na}_2\text{Ti}_2\text{Na}_2\text{Ti}_2(\text{Si}_2\text{O}_7)_2[\text{PO}_3(\text{OH})][\text{PO}_2(\text{OH})_2]\text{O}_2(\text{OF})$ | Rn | 2022 s.p. | Russia          | <i>Doklady Akademii Nauk SSSR</i> <b>142</b> (1962), 118                                                                               | <i>European Journal of Mineralogy</i> <b>30</b> (2018), 289                                 |
| Paralstonite        | $\text{BaCa}(\text{CO}_3)_2$                                                                                                                                    | A  | 1979-015  | USA             | <i>Geological Survey of Canada Paper</i> <b>79-1C</b> (1979), 99                                                                       | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1980), 353                               |
| Paramarkeyite       | $\text{Ca}_2(\text{UO}_2)(\text{CO}_3)_3(\text{H}_2\text{O})_5$                                                                                                 | A  | 2021-024  | USA             | <i>Mineralogical Magazine</i> <b>86</b> (2022), 27                                                                                     |                                                                                             |
| Paramelaconite      | $\text{Cu}^{1+}_2\text{Cu}^{2+}_2\text{O}_3$                                                                                                                    | G  | 1891      | USA             | <i>Proceedings of the Academy of Natural Sciences of Philadelphia</i> (1891), 284                                                      | <i>American Mineralogist</i> <b>63</b> (1978), 180                                          |
| Paramendozavilite   | $\text{NaAl}_4\text{Fe}_7(\text{PO}_4)_5(\text{PMo}_{12}\text{O}_{40})(\text{OH})_{16} \cdot 56\text{H}_2\text{O}$                                              | A  | 1982-010  | Mexico          | <i>Boletín de Mineralogía</i> <b>2(1)</b> (1986), 13                                                                                   |                                                                                             |
| Paramolybdomenite   | $\text{PbSeO}_3$                                                                                                                                                | A  | 2023-025  | Russia          | CNMNC Newsletter 74 - <i>Mineralogical Magazine</i> <b>87</b> (2023), 783; <i>European Journal of Mineralogy</i> <b>35</b> (2023), 659 | <a href="https://doi.org/10.1180/mgm.2025.10166">https://doi.org/10.1180/mgm.2025.10166</a> |
| Paramontroseite     | $\text{VO}_2$                                                                                                                                                   | G  | 1955      | USA             | <i>American Mineralogist</i> <b>40</b> (1955), 861                                                                                     | <i>European Journal of Mineralogy</i> <b>35</b> (2023), 373                                 |
| Paranatisite        | $\text{Na}_2\text{TiO}(\text{SiO}_4)$                                                                                                                           | A  | 1990-016  | Russia          | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>121(6)</b> (1992), 133                                                 | <i>Canadian Mineralogist</i> <b>40</b> (2002), 947                                          |
| Paranatrolite       | $\text{Na}_2(\text{Si}_3\text{Al}_2)\text{O}_{10} \cdot 3\text{H}_2\text{O}$                                                                                    | A  | 1978-017  | Canada          | <i>Canadian Mineralogist</i> <b>18</b> (1980), 85                                                                                      | <i>American Mineralogist</i> <b>90</b> (2005), 252                                          |
| Paraniite-(Y)       | $\text{Ca}_2\text{Y}(\text{WO}_4)_2(\text{AsO}_4)$                                                                                                              | A  | 1992-018  | Italy           | <i>Schweizerische Mineralogische und Petrographische Mitteilungen</i> <b>74</b> (1994), 155                                            | <i>Acta Crystallographica</i> <b>C48</b> (1992), 1357                                       |
| Paraotwayite        | $\text{Ni}(\text{OH})_{2-x}(\text{SO}_4, \text{CO}_3)_{0.5x}$                                                                                                   | A  | 1984-045a | Australia       | <i>Canadian Mineralogist</i> <b>25</b> (1987), 409                                                                                     |                                                                                             |
| Parapierrotite      | $\text{TiSb}_5\text{S}_8$                                                                                                                                       | A  | 1974-059  | North Macedonia | <i>Tschermaks Mineralogische und Petrographische Mitteilungen</i> <b>22</b> (1975), 200                                                | <i>European Journal of Mineralogy</i> <b>31</b> (2019), 1055                                |
| Pararaisaite        | $[\text{Mg}(\text{H}_2\text{O})_6]\text{CuTe}^{6+}\text{O}_4(\text{OH})_2$                                                                                      | A  | 2017-110  | USA             | <i>Canadian Mineralogist</i> <b>56</b> (2018), 811                                                                                     |                                                                                             |
| Pararammsbergite    | $\text{NiAs}_2$                                                                                                                                                 | G  | 1940      | Canada          | <i>American Mineralogist</i> <b>25</b> (1940), 561                                                                                     | <i>American Mineralogist</i> <b>57</b> (1972), 1                                            |
| Pararealgar         | $\text{As}_4\text{S}_4$                                                                                                                                         | A  | 1980-034  | Canada          | <i>Canadian Mineralogist</i> <b>18</b> (1980), 525                                                                                     | <i>American Mineralogist</i> <b>80</b> (1995), 400                                          |
| Pararobertsite      | $\text{Ca}_2\text{Mn}^{3+}_3\text{O}_2(\text{PO}_4)_3(\text{H}_2\text{O})_2 \cdot \text{H}_2\text{O}$                                                           | A  | 1987-039  | USA             | <i>Canadian Mineralogist</i> <b>27</b> (1989), 451                                                                                     | <i>American Mineralogist</i> <b>85</b> (2000), 1302                                         |
| Pararsenolamprite   | As                                                                                                                                                              | A  | 1999-047  | Japan           | <i>Mineralogical Magazine</i> <b>65</b> (2001), 807                                                                                    | <i>Scientific Reports</i> <b>9</b> (2019), 6275                                             |
| Parascandolaite     | $\text{KMgF}_3$                                                                                                                                                 | A  | 2013-092  | Italy           | <i>Physics and Chemistry of Minerals</i> <b>41</b> (2014), 403                                                                         |                                                                                             |
| Paraschachnerite    | $\text{Ag}_3\text{Hg}_2$                                                                                                                                        | A  | 1971-056  | Germany         | <i>Neues Jahrbuch für Mineralogie Abhandlungen</i> <b>117</b> (1972), 1                                                                | <i>Mineralogical Magazine</i> <b>51</b> (1987), 318                                         |

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| Paraschoepite     | $\text{UO}_3 \cdot (2-x)\text{H}_2\text{O}$                                                                                                         | Q  | 1947      | Democratic Republic of the Congo | <i>American Mineralogist</i> <b>32</b> (1947), 344                                                              |                                                                                     |
| Parascholzite     | $\text{CaZn}_2(\text{PO}_4)_2(\text{H}_2\text{O})_2$                                                                                                | A  | 1980-056  | Germany                          | <i>American Mineralogist</i> <b>66</b> (1981), 843                                                              | <i>Zeitschrift für Kristallographie</i> <b>212</b> (1997), 197                      |
| Parascorodite     | $\text{Fe}^{3+}(\text{AsO}_4)(\text{H}_2\text{O})_2$                                                                                                | A  | 1996-061  | Czech Republic                   | <i>American Mineralogist</i> <b>84</b> (1999), 1439                                                             | <i>Zapiski Rossiyskogo Mineralogicheskogo Obshchestva</i> <b>151(5)</b> (2022), 102 |
| Parasibirskite    | $\text{Ca}_2\text{B}_2\text{O}_5(\text{H}_2\text{O})$                                                                                               | A  | 1996-051  | Japan                            | <i>Mineralogical Magazine</i> <b>62</b> (1998), 521                                                             | <i>Journal of Mineralogical and Petrological Sciences</i> <b>105</b> (2010), 70     |
| Parasterryite     | $\text{Ag}_4\text{Pb}_{20}(\text{Sb,As})_{24}\text{S}_{58}$                                                                                         | A  | 2010-033  | Italy                            | <i>Canadian Mineralogist</i> <b>49</b> (2011), 623                                                              | <i>Acta Crystallographica</i> <b>B68</b> (2012), 480                                |
| Parasymplesite    | $\text{Fe}^{2+}_3(\text{AsO}_4)_2(\text{H}_2\text{O})_8$                                                                                            | G  | 1954      | Japan                            | <i>Proceedings of the Japan Academy</i> <b>30</b> (1954), 318                                                   | <i>Journal of Mineralogical and Petrological Sciences</i> <b>116</b> (2021), 183    |
| Paratacamite      | $\text{Cu}_3\text{Cu}(\text{OH})_6\text{Cl}_2$                                                                                                      | G  | 1906      | Chile                            | <i>Mineralogical Magazine</i> <b>14</b> (1906), 170                                                             | <i>Physics and Chemistry of Minerals</i> <b>41</b> (2014), 33                       |
| Paratacamite-(Mg) | $\text{Cu}_3\text{Mg}(\text{OH})_6\text{Cl}_2$                                                                                                      | A  | 2013-014  | Chile                            | <i>Mineralogical Magazine</i> <b>77</b> (2013), 3113                                                            |                                                                                     |
| Paratacamite-(Ni) | $\text{Cu}_3\text{Ni}(\text{OH})_6\text{Cl}_2$                                                                                                      | A  | 2013-013  | Australia                        | <i>Australian Journal of Mineralogy</i> <b>17</b> (2013), 39                                                    |                                                                                     |
| Paratellurite     | $\text{TeO}_2$                                                                                                                                      | A  | 1962 s.p. | Mexico                           | <i>American Mineralogist</i> <b>45</b> (1960), 1272                                                             | <i>Kristallografiya</i> <b>32</b> (1987), 609                                       |
| Paratimroseite    | $\text{Pb}_2\text{Cu}_4(\text{TeO}_6)_2(\text{H}_2\text{O})_2$                                                                                      | A  | 2009-065  | USA                              | <i>American Mineralogist</i> <b>95</b> (2010), 1560                                                             |                                                                                     |
| Paratobermorite   | $[\text{Ca}(\text{H}_2\text{O})_3]\text{Ca}_4(\text{Al}_{0.5}\text{Si}_{0.5})_2\text{Si}_4\text{O}_{16}(\text{OH})(\text{H}_2\text{O})_2$           | A  | 2020-100  | Russia                           | <i>American Mineralogist</i> <b>107</b> (2022), 2272                                                            |                                                                                     |
| Paratooite-(La)   | $(\text{La,Ca,Na,Sr})_6\text{Cu}(\text{CO}_3)_8$                                                                                                    | A  | 2005-020  | Australia                        | <i>Mineralogical Magazine</i> <b>70</b> (2006), 131                                                             | <i>Minerals</i> <b>9</b> (2019), 370                                                |
| Paratsepinite-Ba  | $(\text{Ba,Na,K})_{2-x}(\text{Ti,Nb})_2(\text{Si}_4\text{O}_{12})(\text{OH},\text{O})_2 \cdot 4\text{H}_2\text{O}$                                  | A  | 2002-006  | Russia                           | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>132(1)</b> (2003), 38                           |                                                                                     |
| Paratsepinite-Na  | $(\text{Na,Sr,K,Ca})_2(\text{Ti,Nb})_2(\text{Si}_4\text{O}_{12})(\text{O},\text{OH})_2 \cdot 4\text{H}_2\text{O}$                                   | A  | 2003-008  | Russia                           | <i>Crystallography Reports</i> <b>49</b> (2004), 946                                                            |                                                                                     |
| Paraumbite        | $\text{K}_3\text{Zr}_2\text{H}(\text{Si}_3\text{O}_9)_2 \cdot 3\text{H}_2\text{O}$                                                                  | A  | 1982-007  | Russia                           | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>112</b> (1983), 461                               |                                                                                     |
| Parauranophane    | $\text{Ca}(\text{UO}_2)_2(\text{SiO}_3\text{OH})_2(\text{H}_2\text{O})_4 \cdot \text{H}_2\text{O}$                                                  | Rn | 2022 s.p. | Czech Republic                   | <i>Vestniku Královské České Společnosti Nauk</i> <b>7</b> (1935), 1                                             | <i>Dalton Transactions</i> <b>48</b> (2019), 16722                                  |
| Paravauxite       | $\text{Fe}^{2+}\text{Al}_2(\text{PO}_4)_2(\text{OH})_2(\text{H}_2\text{O})_6 \cdot 2\text{H}_2\text{O}$                                             | G  | 1922      | Bolivia                          | <i>Science</i> <b>56</b> (1922), 50                                                                             | <i>Mineralogical Magazine</i> <b>78</b> (2014), 841                                 |
| Paravinogradovite | $(\text{Na},\square)_2(\text{Ti}^{4+},\text{Fe}^{3+})_4(\text{Si}_2\text{O}_6)_2(\text{Si}_3\text{AlO}_{10})(\text{OH})_4 \cdot \text{H}_2\text{O}$ | A  | 2002-033  | Russia                           | <i>Canadian Mineralogist</i> <b>41</b> (2003), 989                                                              |                                                                                     |
| Parawulfite       | $\text{K}_5\text{Na}_3\text{Cu}_8\text{O}_4(\text{SO}_4)_8$                                                                                         | A  | 2013-036  | Russia                           | <i>Canadian Mineralogist</i> <b>52</b> (2014), 699                                                              |                                                                                     |
| Pargasite         | $\text{NaCa}_2(\text{Mg}_4\text{Al})(\text{Si}_6\text{Al}_2)\text{O}_{22}(\text{OH})_2$                                                             | Rd | 2012 s.p. | Finland                          | <i>Taschenbuch für die gesammte Mineralogie mit Hinsicht auf die neuesten Entdeckungen</i> <b>9</b> (1815), 301 | <i>Canadian Mineralogist</i> <b>56</b> (2018), 939                                  |
| Parisite-(Ce)     | $\text{CaCe}_2(\text{CO}_3)_3\text{F}_2$                                                                                                            | Rn | 1987 s.p. | Colombia                         | <i>Annalen der Chemie und Pharmacie</i> <b>53</b> (1845), 147                                                   | <i>Mineralogy and Petrology</i> <b>115</b> (2021), 1                                |
| Parisite-(La)     | $\text{CaLa}_2(\text{CO}_3)_3\text{F}_2$                                                                                                            | A  | 2016-031  | Brazil                           | <i>Mineralogical Magazine</i> <b>82</b> (2018), 133                                                             |                                                                                     |
| Parisite-(Nd)     | $\text{CaNd}_2(\text{CO}_3)_3\text{F}_2$                                                                                                            | A  | 2024-013  | China                            | <i>Mineralogical Magazine</i> <b>89</b> (2025), 370                                                             |                                                                                     |
| Parkerite         | $\text{Ni}_3\text{Bi}_2\text{S}_2$                                                                                                                  | G  | 1937      | South Africa                     | <i>Transactions of the Geological Society of South Africa</i> <b>39</b> (1937), 81                              | <i>American Mineralogist</i> <b>111</b> (2026), 209                                 |
| Parkinsonite      | $\text{Pb}_7\text{MoO}_9\text{Cl}_2$                                                                                                                | A  | 1991-030  | United Kingdom                   | <i>Mineralogical Magazine</i> <b>58</b> (1994), 59                                                              | <i>Mineralogical Magazine</i> <b>74</b> (2010), 269                                 |
| Parnauite         | $\text{Cu}_9(\text{AsO}_4)_2(\text{SO}_4)(\text{OH})_{10}(\text{H}_2\text{O})_4 \cdot 3\text{H}_2\text{O}$                                          | A  | 1978-014  | USA                              | <i>American Mineralogist</i> <b>63</b> (1978), 704                                                              | <i>European Journal of Mineralogy</i> <b>25</b> (2013), 693                         |

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| Parsettensite   | $(\text{K,Na,Ca})_{7.5}(\text{Mn,Mg})_{49}\text{Si}_{72}\text{O}_{168}(\text{OH})_{50}\cdot n\text{H}_2\text{O}$                                   | G  | 1923      | Switzerland                      | <i>Schweizerische Mineralogische und Petrographische Mitteilungen</i> <b>3</b> (1923), 227                                             | <i>American Mineralogist</i> <b>79</b> (1994), 426                        |
| Parsonsite      | $\text{Pb}_2(\text{UO}_2)(\text{PO}_4)_2$                                                                                                          | G  | 1923      | Democratic Republic of the Congo | <i>Comptes Rendus Hebdomadaires des Séances de l'Académie des Sciences</i> <b>176</b> (1923), 171                                      | <i>American Mineralogist</i> <b>85</b> (2000), 801                        |
| Parthéite       | $\text{Ca}_2(\text{Si}_4\text{Al}_4)\text{O}_{15}(\text{OH})_2\cdot 4\text{H}_2\text{O}$                                                           | A  | 1978-026  | Turkey                           | <i>Schweizerische Mineralogische und Petrographische Mitteilungen</i> <b>59</b> (1979), 5                                              | <i>American Mineralogist</i> <b>97</b> (2012), 1866                       |
| Parwanite       | $\text{NaMg}_4\text{Al}_8(\text{PO}_4)_8(\text{CO}_3)(\text{OH})_7\cdot 30\text{H}_2\text{O}$                                                      | A  | 1986-036a | Australia                        | <i>Australian Journal of Mineralogy</i> <b>13</b> (2007), 23                                                                           |                                                                           |
| Parwelite       | $\text{Mn}^{2+}_{10}\text{Sb}^{5+}_2\text{As}^{5+}_2\text{Si}_2\text{O}_{24}$                                                                      | A  | 1966-023  | Sweden                           | <i>Arkiv för Mineralogi och Geologi</i> <b>4</b> (1968), 467                                                                           | <i>Inorganic Chemistry</i> <b>16</b> (1977), 1839                         |
| Pašavaite       | $\text{Pd}_3\text{Pb}_2\text{Te}_2$                                                                                                                | A  | 2007-059  | Russia                           | <i>Canadian Mineralogist</i> <b>47</b> (2009), 53                                                                                      |                                                                           |
| Pascoite        | $[\text{Ca}_3(\text{H}_2\text{O})_{17}]\text{V}^{5+}_{10}\text{O}_{28}$                                                                            | G  | 1914      | Peru                             | <i>Proceedings of the American Philosophical Society</i> <b>53</b> (1914), 31                                                          | <i>Canadian Mineralogist</i> <b>43</b> (2005), 1379                       |
| Paseroite       | $\text{Pb}(\text{Mn}^{2+},\square)(\text{Fe}^{3+},\square)_2(\text{V}^{5+},\text{Ti}^{4+},\square)_{18}\text{O}_{38}$                              | A  | 2011-069  | Italy                            | <i>European Journal of Mineralogy</i> <b>24</b> (2012), 1061                                                                           |                                                                           |
| Patrónite       | $\text{VS}_4$                                                                                                                                      | Rn | 2007 s.p. | Peru                             | <i>Engineering and Mining Journal</i> <b>82</b> (1906), 385                                                                            | <i>Chemistry - A European Journal</i> <b>21</b> (2015), 4639              |
| Pattersonite    | $\text{PbFe}_3(\text{PO}_4)_2(\text{OH})_5(\text{H}_2\text{O})$                                                                                    | A  | 2005-049  | Germany                          | <i>European Journal of Mineralogy</i> <b>20</b> (2008), 281                                                                            |                                                                           |
| Patynite        | $\text{NaKCa}_4[\text{Si}_9\text{O}_{23}]$                                                                                                         | A  | 2019-018  | Russia                           | <i>Minerals</i> <b>9</b> (2019), 611                                                                                                   |                                                                           |
| Paufferite      | $\text{VO}(\text{SO}_4)$                                                                                                                           | A  | 2005-004  | Russia                           | <i>Canadian Mineralogist</i> <b>45</b> (2007), 921                                                                                     | <i>Acta Crystallographica</i> <b>B78</b> (2022), 842                      |
| Pauladamsite    | $\text{Cu}_4(\text{SeO}_3)(\text{SO}_4)(\text{OH})_4(\text{H}_2\text{O})_2$                                                                        | A  | 2015-005  | USA                              | <i>Mineralogical Magazine</i> <b>80</b> (2016), 949                                                                                    |                                                                           |
| Paulgrothite    | $\text{Cu}_9\text{Fe}^{3+}\text{O}_4(\text{PO}_4)_4\text{Cl}$                                                                                      | A  | 2021-004  | Russia                           | CNMNC Newsletter 64 - <i>Mineralogical Magazine</i> <b>86</b> (2022), 178; <i>European Journal of Mineralogy</i> <b>34</b> (2022), 1   |                                                                           |
| Paulhlavaite    | $\text{CaCuTe}^{4+}_4\text{O}_{10}$                                                                                                                | A  | 2025-092  | USA                              | CNMNC Newsletter 90 - <i>Mineralogical Magazine</i> <b>90</b> (2026), xxx; <i>European Journal of Mineralogy</i> <b>38</b> (2026), 231 |                                                                           |
| Paulingite-Ca   | $(\text{Ca,K,Na,Ba},\square)_{10}(\text{Si,Al})_{42}\text{O}_{84}\cdot 34\text{H}_2\text{O}$                                                       | Rn | 1997 s.p. | USA                              | <i>American Mineralogist</i> <b>67</b> (1982), 799                                                                                     | <i>Mineralogical Magazine</i> <b>61</b> (1997), 591                       |
| Paulingite-K    | $(\text{K,Ca,Na,Ba},\square)_{10}(\text{Si,Al})_{42}\text{O}_{84}\cdot 34\text{H}_2\text{O}$                                                       | Rn | 1997 s.p. | USA                              | <i>American Mineralogist</i> <b>45</b> (1960), 79                                                                                      | <i>Microporous and Mesoporous Materials</i> <b>206</b> (2015), 36         |
| Paulišite       | $\text{Ca}_2\text{Zn}(\text{CO}_3)_3(\text{H}_2\text{O})_2$                                                                                        | A  | 2023-031  | Czech Republic                   | <i>American Mineralogist</i> <b>110</b> (2025), 480                                                                                    |                                                                           |
| Paulkellerite   | $\text{Bi}^{3+}_2\text{Fe}^{3+}\text{O}_2(\text{PO}_4)(\text{OH})_2$                                                                               | A  | 1987-031  | Germany                          | <i>American Mineralogist</i> <b>73</b> (1988), 870                                                                                     | <i>American Mineralogist</i> <b>73</b> (1988), 873                        |
| Paulkerrite     | $[(\text{H}_2\text{O})\text{K}]\text{Mg}_2(\text{Fe}^{3+}_2\text{Ti})(\text{PO}_4)_4(\text{OF})(\text{H}_2\text{O})_{10}\cdot 4\text{H}_2\text{O}$ | A  | 1983-014  | USA                              | <i>Mineralogical Record</i> <b>15</b> (1984), 303                                                                                      | <i>European Journal of Mineralogy</i> <b>35</b> (2023), 909               |
| Paulmooreite    | $\text{Pb}_2\text{As}^{3+}_2\text{O}_5$                                                                                                            | A  | 1978-004  | Sweden                           | <i>American Mineralogist</i> <b>64</b> (1979), 352                                                                                     | <i>American Mineralogist</i> <b>65</b> (1980), 340                        |
| Pauloabibite    | $\text{NaNbO}_3$                                                                                                                                   | A  | 2012-090  | Brazil                           | <i>American Mineralogist</i> <b>100</b> (2015), 442                                                                                    |                                                                           |
| Paulrobinsonite | $\text{Ti}_8\text{Fe}_4\text{O}_2$                                                                                                                 | A  | 2022-099a | China                            | <i>Mineralogical Magazine</i> <b>89</b> (2025), 855                                                                                    |                                                                           |
| Paulscherrite   | $(\text{UO}_2)(\text{OH})_2$                                                                                                                       | A  | 2008-022  | Australia                        | <i>American Mineralogist</i> <b>96</b> (2011), 229                                                                                     |                                                                           |
| Pautovite       | $\text{CsFe}_2\text{S}_3$                                                                                                                          | A  | 2004-005  | Russia                           | <i>Canadian Mineralogist</i> <b>43</b> (2005), 965                                                                                     | <i>Journal of Solid State Chemistry</i> <b>177</b> (2004), 1867           |
| Pavlovskyite    | $\text{Ca}_8(\text{SiO}_4)_2(\text{Si}_3\text{O}_{10})$                                                                                            | A  | 2010-063  | Russia                           | <i>American Mineralogist</i> <b>97</b> (2012), 503                                                                                     |                                                                           |
| Pavonite        | $\text{AgBi}_3\text{S}_5$                                                                                                                          | G  | 1954      | Bolivia                          | <i>American Mineralogist</i> <b>39</b> (1954), 409                                                                                     | <i>Neues Jahrbuch für Mineralogie Abhandlungen</i> <b>192</b> (2015), 307 |

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| Paxite            | $\text{CuAs}_2$                                                                                                                      | A  | 1967 s.p. | Czech Republic                   | <i>Acta Universitatis Carolinae Geologica</i> <b>2</b> (1962), 77                                                                      | <i>Tschermaks Mineralogische und Petrographische Mitteilungen</i> <b>34</b> (1985), 167 |
| Pearceite         | $[\text{Ag}_9\text{CuS}_4][(\text{Ag}, \text{Cu})_6(\text{As}, \text{Sb})_2\text{S}_7]$                                              | Rd | 2006 s.p. | USA                              | <i>American Journal of Science</i> <b>152</b> (1896), 17                                                                               | <i>Acta Crystallographica</i> <b>B62</b> (2006), 212                                    |
| Peatite-(Y)       | $\text{Li}_4\text{Na}_{12}(\text{Y}, \text{Na}, \text{Ca}, \text{REE})_{12}(\text{PO}_4)_{12}(\text{CO}_3)_4(\text{F}, \text{OH})_8$ | A  | 2009-020  | Canada                           | <i>Canadian Mineralogist</i> <b>51</b> (2013), 569                                                                                     |                                                                                         |
| Pecoraite         | $\text{Ni}_3\text{Si}_2\text{O}_5(\text{OH})_4$                                                                                      | A  | 1969-005  | Australia                        | <i>Science</i> <b>165</b> (1969), 59                                                                                                   | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1983), 513                           |
| Pectolite         | $\text{NaCa}_2\text{Si}_3\text{O}_8(\text{OH})$                                                                                      | G  | 1828      | Italy                            | <i>Archiv für die Gesamte Naturlehre</i> <b>13</b> (1828), 385                                                                         | <i>European Journal of Mineralogy</i> <b>30</b> (2018), 451                             |
| Peisleyite        | $\text{Na}_3\text{Al}_{16}(\text{PO}_4)_{10}(\text{SO}_4)_2(\text{OH})_{17} \cdot 20\text{H}_2\text{O}$                              | A  | 1981-053  | Australia                        | <i>Mineralogical Magazine</i> <b>46</b> (1982), 449                                                                                    |                                                                                         |
| Pekoite           | $\text{CuPbBi}_{11}\text{S}_{18}$                                                                                                    | A  | 1975-014  | Australia                        | <i>Canadian Mineralogist</i> <b>14</b> (1976), 322                                                                                     |                                                                                         |
| Pekovite          | $\text{SrB}_2\text{Si}_2\text{O}_8$                                                                                                  | A  | 2003-035  | Tajikistan                       | <i>Canadian Mineralogist</i> <b>42</b> (2004), 107                                                                                     | <i>Journal of Physical Chemistry C</i> <b>124</b> (2020), 26048                         |
| Péligotite        | $\text{Na}_6(\text{UO}_2)(\text{SO}_4)_4(\text{H}_2\text{O})_4$                                                                      | A  | 2015-088  | USA                              | <i>Mineralogical Magazine</i> <b>81</b> (2017), 753                                                                                    |                                                                                         |
| Pellouxite        | $(\text{Cu}, \text{Ag})_2\text{Pb}_{21}\text{Sb}_{23}\text{S}_{55}\text{ClO}$                                                        | A  | 2001-033  | Italy                            | <i>European Journal of Mineralogy</i> <b>16</b> (2004), 839                                                                            | <i>European Journal of Mineralogy</i> <b>16</b> (2004), 845                             |
| Pellyite          | $\text{Ba}_2\text{CaFe}^{2+}_2\text{Si}_6\text{O}_{17}$                                                                              | A  | 1970-035  | Canada                           | <i>Canadian Mineralogist</i> <b>11</b> (1972), 444                                                                                     | <i>American Mineralogist</i> <b>61</b> (1976), 67                                       |
| Penberthycroftite | $[\text{Al}_6(\text{AsO}_4)_3(\text{OH})_9(\text{H}_2\text{O})_5] \cdot 8\text{H}_2\text{O}$                                         | A  | 2015-025  | United Kingdom                   | <i>Mineralogical Magazine</i> <b>80</b> (2016), 1149                                                                                   |                                                                                         |
| Pendevilleite-(Y) | $\text{Mg}_2\text{Y}_3\text{Al}(\text{UO}_2)_2(\text{CO}_3)_7(\text{OH})_6(\text{H}_2\text{O})_{16}$                                 | A  | 2022-054  | Democratic Republic of the Congo | <i>Mineralogical Magazine</i> <b>90</b> (2026), 150                                                                                    |                                                                                         |
| Penfieldite       | $\text{Pb}_2\text{Cl}_3(\text{OH})$                                                                                                  | G  | 1892      | Greece                           | <i>American Journal of Science</i> <b>44</b> (1892), 260                                                                               | <i>Mineralogical Magazine</i> <b>59</b> (1995), 341                                     |
| Pengite           | $(\text{Pb}_8\text{Sb}^{3+}_3)\text{Sb}^{5+}_9\text{O}_{35}$                                                                         | A  | 2022-068  | China                            | CNMNC Newsletter 70 - <i>Mineralogical Magazine</i> <b>87</b> (2023), 160; <i>European Journal of Mineralogy</i> <b>34</b> (2022), 591 |                                                                                         |
| Penikisite        | $\text{BaMg}_2\text{Al}_2(\text{PO}_4)_3(\text{OH})_3$                                                                               | A  | 1976-023  | Canada                           | <i>Canadian Mineralogist</i> <b>15</b> (1977), 393                                                                                     | <i>Acta Crystallographica</i> <b>E69</b> (2013), i4                                     |
| Penkvilksite      | $\text{Na}_2\text{TiSi}_4\text{O}_{11} \cdot 2\text{H}_2\text{O}$                                                                    | A  | 1973-016  | Russia                           | <i>Doklady Akademii Nauk SSSR</i> <b>217</b> (1974), 1161                                                                              | <i>American Mineralogist</i> <b>79</b> (1994), 1185                                     |
| Pennantite        | $\text{Mn}^{2+}_5\text{Al}(\text{Si}_3\text{Al})\text{O}_{10}(\text{OH})_8$                                                          | G  | 1946      | United Kingdom                   | <i>Mineralogical Magazine</i> <b>27</b> (1946), 217                                                                                    | <i>Canadian Mineralogist</i> <b>21</b> (1983), 545                                      |
| Penobsquisite     | $\text{Ca}_2\text{Fe}^{2+}[\text{B}_9\text{O}_{13}(\text{OH})_6]\text{Cl}(\text{H}_2\text{O})_2 \cdot 2\text{H}_2\text{O}$           | A  | 1995-014  | Canada                           | <i>Canadian Mineralogist</i> <b>34</b> (1996), 657                                                                                     |                                                                                         |
| Penriceite        | $[\text{Mg}(\text{H}_2\text{O})_6][\text{Na}(\text{H}_2\text{O})_2\text{Al}_3(\text{PO}_4)_2\text{F}_6] \cdot \text{H}_2\text{O}$    | A  | 2021-068  | Australia                        | <i>Australian Journal of Mineralogy</i> <b>23</b> (2022), 5                                                                            |                                                                                         |
| Penroseite        | $(\text{Ni}, \text{Co}, \text{Cu})\text{Se}_2$                                                                                       | G  | 1925      | Bolivia                          | <i>Proceedings of the Academy of Natural Sciences of Philadelphia</i> <b>77</b> (1925) 317                                             | <i>Acta Chemica Scandinavica</i> <b>23</b> (1969), 2325                                 |
| Pentagonite       | $\text{CaV}^{4+}\text{OSi}_4\text{O}_{10}(\text{H}_2\text{O})_3 \cdot \text{H}_2\text{O}$                                            | A  | 1971-039  | USA                              | <i>American Mineralogist</i> <b>58</b> (1973), 405                                                                                     | <i>Journal of Mineralogical and Petrological Sciences</i> <b>104</b> (2009), 241        |
| Pentahydrate      | $\text{Mg}(\text{SO}_4)(\text{H}_2\text{O})_4 \cdot \text{H}_2\text{O}$                                                              | G  | 1951      | USA                              | The System of Mineralogy, Vol. II, 7th ed. Wiley, New York (1951), 492                                                                 | <i>American Mineralogist</i> <b>91</b> (2006), 261                                      |
| Pentahydroborite  | $\text{CaB}_2\text{O}(\text{OH})_6(\text{H}_2\text{O}) \cdot \text{H}_2\text{O}$                                                     | A  | 1967 s.p. | Russia                           | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>90</b> (1961), 673                                                       | <i>Soviet Physics - Crystallography</i> <b>22</b> (1977), 35                            |
| Pentlandite       | $(\text{Ni}, \text{Fe})_9\text{S}_8$                                                                                                 | G  | 1856      | United Kingdom                   | Traité de Minéralogie, Vol. 2. Dalmont, Paris (1856), 549                                                                              | <i>Canadian Journal of Mineralogy and Petrology</i> <b>61</b> (2023), 239               |
| Penzhinite        | $(\text{Ag}, \text{Cu})_4\text{Au}(\text{S}, \text{Se})_4$                                                                           | A  | 1982-027  | Russia                           | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>113</b> (1984), 356                                                      |                                                                                         |

|                  |                                                                                                                                   |    |           |                           |                                                                                                                                         |                                                                                 |
|------------------|-----------------------------------------------------------------------------------------------------------------------------------|----|-----------|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|
| Peprossiite-(Ce) | $\text{CeAl}_2(\text{B}_{3.67}\text{Si}_{0.33})\text{O}_{10.67}$                                                                  | Rd | 1990-002  | Italy                     | <i>European Journal of Mineralogy</i> <b>5</b> (1993), 53                                                                               | <i>American Mineralogist</i> <b>85</b> (2000), 586                              |
| Peprossiite-(Y)  | $\text{YAl}_2(\text{B}_{3.67}\text{Si}_{0.33})\text{O}_{10.67}$                                                                   | A  | 2024-046  | Tajikistan                | CNMNC Newsletter 82 - <i>Mineralogical Magazine</i> <b>88</b> (2024), 804; <i>European Journal of Mineralogy</i> <b>36</b> (2024), 1005 |                                                                                 |
| Perbøeite-(Ce)   | $(\text{CaCe}_3)(\text{Al}_3\text{Fe}^{2+})(\text{Si}_2\text{O}_7)(\text{SiO}_4)_3\text{O}(\text{OH})_2$                          | A  | 2011-055  | Norway                    | <i>American Mineralogist</i> <b>99</b> (2014), 157                                                                                      |                                                                                 |
| Perbøeite-(La)   | $(\text{CaLa}_3)(\text{Al}_3\text{Fe}^{2+})(\text{Si}_2\text{O}_7)(\text{SiO}_4)_3\text{O}(\text{OH})_2$                          | A  | 2018-116  | Russia                    | <i>Mineralogical Magazine</i> <b>84</b> (2020), 593                                                                                     |                                                                                 |
| Perchiazziite    | $\text{Co}_2(\text{CO}_3)(\text{OH})_2$                                                                                           | A  | 2023-013  | Italy                     | <i>Canadian Journal of Mineralogy and Petrology</i> <b>62</b> (2024), 369                                                               |                                                                                 |
| Perchukite-(Y)   | $\text{PbYAsSi}_2\text{O}_8$                                                                                                      | A  | 2025-060  | Tajikistan                | CNMNC Newsletter 88 - <i>Mineralogical Magazine</i> <b>90</b> (2026), 192; <i>European Journal of Mineralogy</i> <b>37</b> (2025), 921  |                                                                                 |
| Percleveite-(Ce) | $\text{Ce}_2\text{Si}_2\text{O}_7$                                                                                                | A  | 2002-023  | Sweden                    | <i>European Journal of Mineralogy</i> <b>15</b> (2003), 725                                                                             |                                                                                 |
| Percleveite-(La) | $\text{La}_2\text{Si}_2\text{O}_7$                                                                                                | A  | 2019-037  | Russia                    | <i>Mineralogical Magazine</i> <b>84</b> (2020), 913                                                                                     |                                                                                 |
| Peretaite        | $\text{CaSb}^{3+}_4\text{O}_4(\text{SO}_4)_2(\text{OH})_2(\text{H}_2\text{O})_2$                                                  | A  | 1979-068  | Italy                     | <i>American Mineralogist</i> <b>65</b> (1980), 936                                                                                      | <i>American Mineralogist</i> <b>65</b> (1980), 940                              |
| Perettiite-(Y)   | $\text{Y}_2\text{Mn}^{2+}_4\text{Fe}^{2+}(\text{Si}_2\text{B}_8\text{O}_{24})$                                                    | A  | 2014-109  | Myanmar                   | <i>European Journal of Mineralogy</i> <b>27</b> (2015), 793                                                                             |                                                                                 |
| Perhamite        | $\text{Ca}_3\text{Al}_{7.7}\text{Si}_3\text{P}_4\text{O}_{23.5}(\text{OH})_{14.1} \cdot 8\text{H}_2\text{O}$                      | A  | 1975-019  | USA                       | <i>Mineralogical Magazine</i> <b>41</b> (1977), 437                                                                                     | <i>Mineralogical Magazine</i> <b>70</b> (2006), 201                             |
| Periclase        | $\text{MgO}$                                                                                                                      | G  | 1841      | Italy                     | Memorie mineralogiche e geologiche della Campania. Napoli (1841), 16                                                                    | <i>Acta Crystallographica</i> <b>B54</b> (1998), 8                              |
| Perite           | $\text{PbBiO}_2\text{Cl}$                                                                                                         | A  | 1962 s.p. | Sweden                    | <i>Arkiv för Mineralogi och Geologi</i> <b>2</b> (1960), 565                                                                            | <i>Australian Journal of Mineralogy</i> <b>9</b> (2003), 87                     |
| Perlialite       | $\text{K}_9\text{NaCa}(\text{Si}_{24}\text{Al}_{12})\text{O}_{72} \cdot 15\text{H}_2\text{O}$                                     | A  | 1982-032  | Russia                    | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>113</b> (1984), 607                                                       | <i>European Journal of Mineralogy</i> <b>2</b> (1990), 749                      |
| Perloffite       | $\text{BaMn}^{2+}_2\text{Fe}^{3+}_2(\text{PO}_4)_3(\text{OH})_3$                                                                  | A  | 1976-002  | USA                       | <i>Mineralogical Record</i> <b>8</b> (1977), 112                                                                                        | <i>Mineralogical Magazine</i> <b>75</b> (2011), 317                             |
| Permingeatite    | $\text{Cu}_3\text{SbSe}_4$                                                                                                        | A  | 1971-003  | Czech Republic            | <i>Bulletin de la Société Française de Minéralogie et de Cristallographie</i> <b>94</b> (1971), 162                                     | <i>Canadian Mineralogist</i> <b>52</b> (2014), 501                              |
| Perovskite       | $\text{CaTiO}_3$                                                                                                                  | G  | 1839      | Russia                    | <i>Annalen der Physik und Chemie</i> <b>48</b> (1839), 551                                                                              | <i>Journal of Mineralogical and Petrological Sciences</i> <b>116</b> (2021), 45 |
| Perraultite      | $\text{NaBaMn}_4\text{Ti}_2(\text{Si}_2\text{O}_7)_2\text{O}_2(\text{OH})_2\text{F}$                                              | Rd | 1984-033  | Canada                    | <i>Canadian Mineralogist</i> <b>29</b> (1991), 355                                                                                      | <i>Canadian Mineralogist</i> <b>59</b> (2021), 365                              |
| Perrierite-(Ce)  | $\text{Ce}_4\text{MgFe}^{3+}_2\text{Ti}_2(\text{Si}_2\text{O}_7)_2\text{O}_8$                                                     | Rn | 1987 s.p. | Italy                     | <i>Rendiconti dell'Accademia Nazionale dei Lincei, Serie VIII</i> <b>9</b> (1950), 361                                                  | <i>Minerals</i> <b>13</b> (2023), 1395                                          |
| Perrierite-(La)  | $(\text{La,Ce,Ca})_4(\text{Fe}^{2+},\text{Mn})(\text{Ti,Fe}^{3+},\text{Al})_4(\text{Si}_2\text{O}_7)_2\text{O}_8$                 | A  | 2010-089  | Germany                   | <i>Zapiski Rossiyskogo Mineralogicheskogo Obshchestva</i> <b>140(6)</b> (2011), 34                                                      |                                                                                 |
| Perroudite       | $\text{Ag}_4\text{Hg}_5\text{S}_5(\text{I,Br})_2\text{Cl}_2$                                                                      | A  | 1986-035  | France                    | <i>American Mineralogist</i> <b>72</b> (1987), 1251                                                                                     | <i>Neues Jahrbuch für Mineralogie Abhandlungen</i> <b>181</b> (2005), 1         |
| Perryite         | $(\text{Ni,Fe})_{16}\text{PSi}_5$                                                                                                 | A  | 1968 s.p. | Malawi / Oman (meteorite) | <i>Mineralogical Magazine</i> <b>36</b> (1968), 850                                                                                     | <i>Journal of Geosciences</i> <b>66</b> (2021), 189                             |
| Pertlikite       | $\text{K}_2(\text{Fe}^{2+},\text{Mg})_2(\text{Mg,Fe}^{3+})_4\text{Fe}^{3+}_2\text{Al}(\text{SO}_4)_{12}(\text{H}_2\text{O})_{18}$ | A  | 2005-055  | Iran                      | <i>Canadian Mineralogist</i> <b>46</b> (2008), 661                                                                                      |                                                                                 |
| Pertoldite       | $\text{GeO}_2$                                                                                                                    | A  | 2021-074  | Czech Republic            | <i>Journal of Geosciences</i> <b>67</b> (2022), 243                                                                                     |                                                                                 |
| Pertsevite-(F)   | $\text{Mg}_2(\text{BO}_3)\text{F}$                                                                                                | A  | 2002-030  | Russia                    | <i>European Journal of Mineralogy</i> <b>15</b> (2003), 1007                                                                            |                                                                                 |
| Pertsevite-(OH)  | $\text{Mg}_2(\text{BO}_3)(\text{OH})$                                                                                             | A  | 2008-060  | Russia                    | <i>American Mineralogist</i> <b>95</b> (2010), 953                                                                                      | <i>European Journal of Mineralogy</i> <b>20</b> (2008), 951                     |

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|------------------|---------------------------------------------------------------------------------------------------------------------------------|----|-----------|----------------|----------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| Petalite         | $\text{LiAlSi}_4\text{O}_{10}$                                                                                                  | G  | 1800      | Sweden         | <i>Allgemeines Journal der Chemie</i> <b>4</b> (1800), 28                                                                              | <i>American Mineralogist</i> <b>100</b> (2015), 714                                |
| Petarasite       | $\text{Na}_5\text{Zr}_2\text{Si}_6\text{O}_{18}(\text{Cl},\text{OH})(\text{H}_2\text{O})_2$                                     | A  | 1979-063  | Canada         | <i>Canadian Mineralogist</i> <b>18</b> (1980), 497                                                                                     | <i>Canadian Mineralogist</i> <b>18</b> (1980), 503                                 |
| Petedunnite      | $\text{CaZnSi}_2\text{O}_6$                                                                                                     | A  | 1983-073  | USA            | <i>American Mineralogist</i> <b>72</b> (1987), 157                                                                                     | <i>American Mineralogist</i> <b>97</b> (2012), 739                                 |
| Peterandresenite | $\text{Mn}_4\text{Nb}_6\text{O}_{19}(\text{H}_2\text{O})_{12} \cdot 2\text{H}_2\text{O}$                                        | A  | 2012-084  | Norway         | <i>European Journal of Mineralogy</i> <b>26</b> (2014), 567                                                                            |                                                                                    |
| Peterbaylissite  | $\text{Hg}_3(\text{CO}_3)(\text{OH}) \cdot 2\text{H}_2\text{O}$                                                                 | A  | 1993-041  | USA            | <i>Canadian Mineralogist</i> <b>33</b> (1995), 47                                                                                      |                                                                                    |
| Peterchinite     | $\text{Zn}_3\text{Zn}_2(\text{OH})_6\text{As}[\text{O}_3(\text{OH})_3]$                                                         | A  | 2023-050  | USA            | CNMNC Newsletter 75 - <i>Mineralogical Magazine</i> <b>87</b> (2023), 955; <i>European Journal of Mineralogy</i> <b>35</b> (2023), 891 |                                                                                    |
| Petermegawite    | $\text{Al}_6(\text{Se}^{4+}\text{O}_3)_3[\text{SiO}_3(\text{OH})](\text{OH})_9(\text{H}_2\text{O})_6 \cdot 4\text{H}_2\text{O}$ | A  | 2021-079  | Bolivia        | <i>Canadian Journal of Mineralogy and Petrology</i> <b>61</b> (2023), 987                                                              |                                                                                    |
| Petersenite-(Ce) | $\text{Na}_4\text{Ce}_2(\text{CO}_3)_5$                                                                                         | A  | 1992-048  | Canada         | <i>Canadian Mineralogist</i> <b>32</b> (1994), 405                                                                                     |                                                                                    |
| Petersite-(Ce)   | $\text{Cu}_6\text{Ce}(\text{PO}_4)_3(\text{OH})_6(\text{H}_2\text{O})_3$                                                        | A  | 2014-002  | USA            | <i>Canadian Mineralogist</i> <b>54</b> (2016), 1505                                                                                    |                                                                                    |
| Petersite-(La)   | $\text{Cu}_6\text{La}(\text{PO}_4)_3(\text{OH})_6(\text{H}_2\text{O})_3$                                                        | A  | 2017-089  | Japan          | <i>Journal of Mineralogical and Petrological Sciences</i> <b>115</b> (2020), 286                                                       |                                                                                    |
| Petersite-(Y)    | $\text{Cu}_6\text{Y}(\text{PO}_4)_3(\text{OH})_6(\text{H}_2\text{O})_3$                                                         | Rn | 1987 s.p. | USA            | <i>American Mineralogist</i> <b>67</b> (1982), 1039                                                                                    | <i>Zapiski Rossiyskogo Mineralogicheskogo Obshchestva</i> <b>152(2)</b> (2023), 80 |
| Petewilliamsite  | $(\text{Ni},\text{Co})_{30}(\text{As}_2\text{O}_7)_{15}$                                                                        | A  | 2002-059  | Germany        | <i>Mineralogical Magazine</i> <b>68</b> (2004), 231                                                                                    | <i>Acta Crystallographica</i> <b>B66</b> (2010), 603                               |
| Petitjeanite     | $\text{Bi}_3\text{O}(\text{PO}_4)_2(\text{OH})$                                                                                 | A  | 1992-013  | Germany        | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1993), 487                                                                          |                                                                                    |
| Petříčekite      | $\text{CuSe}_2$                                                                                                                 | A  | 2015-111  | Czech Republic | <i>Minerals</i> <b>6</b> (2016), 33                                                                                                    |                                                                                    |
| Petrovicite      | $\text{Cu}_3\text{HgPbBiSe}_5$                                                                                                  | A  | 1975-010  | Czech Republic | <i>Bulletin de la Société Française de Minéralogie et de Cristallographie</i> <b>99</b> (1976), 310                                    |                                                                                    |
| Petrovite        | $\text{Na}_{12}\text{Cu}_2(\text{SO}_4)_8$                                                                                      | A  | 2018-149b | Russia         | <i>Mineralogical Magazine</i> <b>84</b> (2020), 691                                                                                    |                                                                                    |
| Petrovskaitite   | $\text{AuAgS}$                                                                                                                  | A  | 1983-079  | Kazakhstan     | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>113</b> (1984), 602                                                      | <i>CrystEngComm</i> <b>16</b> (2014), 1675                                         |
| Petrukite        | $(\text{Cu},\text{Ag})_2(\text{Fe},\text{Zn})(\text{Sn},\text{In})\text{S}_4$                                                   | A  | 1985-052  | Canada / Japan | <i>Canadian Mineralogist</i> <b>27</b> (1989), 673                                                                                     |                                                                                    |
| Petscheckite     | $\text{U}^{4+}\text{Fe}^{2+}\text{Nb}_2\text{O}_8$                                                                              | A  | 1975-038  | Madagascar     | <i>American Mineralogist</i> <b>63</b> (1978), 941                                                                                     | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (2004), 163                      |
| Petterdite       | $\text{PbCr}_2(\text{CO}_3)_2(\text{OH})_4 \cdot \text{H}_2\text{O}$                                                            | A  | 1999-034  | Australia      | <i>Canadian Mineralogist</i> <b>38</b> (2000), 1467                                                                                    |                                                                                    |
| Petzite          | $\text{Ag}_3\text{AuTe}_2$                                                                                                      | G  | 1845      | Romania        | Handbuch der Bestimmenden Mineralogie. Braumüller and Seidel, Wien (1845), 556                                                         | <i>Acta Crystallographica</i> <b>B75</b> (2019), 273                               |
| Pezzottaite-(Cs) | $\text{Cs}(\text{Be}_2\text{Li})\text{Al}_2(\text{Si}_6\text{O}_{18})$                                                          | Rn | 2003-022  | Madagascar     | <i>Gems &amp; Gemology</i> <b>39</b> (2003), 284                                                                                       | <i>Mineralogical Magazine</i> <b>88</b> (2024), 721                                |
| Pfaffenbergite   | $\text{KNa}_3(\text{Al}_4\text{Si}_{12})\text{O}_{32}$                                                                          | A  | 2023-105  | Germany        | <i>American Mineralogist</i> <b>111</b> (2026), 60                                                                                     |                                                                                    |
| Pharmacoalumite  | $\text{KAl}_4(\text{AsO}_4)_3(\text{OH})_4 \cdot 6.5\text{H}_2\text{O}$                                                         | Rn | 1980-002  | Chile          | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1981), 97                                                                           | <i>Mineralogical Magazine</i> <b>74</b> (2010), 929                                |
| Pharmacolite     | $\text{Ca}(\text{AsO}_3\text{OH})(\text{H}_2\text{O})_2$                                                                        | G  | 1800      | Germany        | Mineralogische Tabellen. Rottmann, Berlin (1800), 75                                                                                   | <i>Acta Crystallographica</i> <b>B27</b> (1971), 349                               |
| Pharmacosiderite | $\text{KFe}^{3+}_4(\text{AsO}_4)_3(\text{OH})_4 \cdot 6\text{-}7\text{H}_2\text{O}$                                             | G  | 1813      | United Kingdom | Handbuch der Mineralogie, Vol. 3. Vandenhoek und Ruprecht, Göttingen (1813), 1065                                                      | <i>Mineralogical Magazine</i> <b>74</b> (2010), 487                                |
| Pharmazincite    | $\text{KZn}(\text{AsO}_4)$                                                                                                      | A  | 2014-015  | Russia         | <i>Mineralogical Magazine</i> <b>81</b> (2017), 1001                                                                                   |                                                                                    |
| Phaunouxite      | $\text{Ca}_3(\text{AsO}_4)_2(\text{H}_2\text{O})_8 \cdot 3\text{H}_2\text{O}$                                                   | A  | 1980-062  | France         | <i>Bulletin de Minéralogie</i> <b>105</b> (1982), 327                                                                                  | <i>Acta Crystallographica</i> <b>B39</b> (1983), 4                                 |

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| Phenakite             | $\text{Be}_2(\text{SiO}_4)$                                                                                                              | G  | 1833      | Russia           | <i>Kongliga Svenska Vetenskaps-Akademiens Handlingar</i> (1833), 160                                                                   | <i>Physics and Chemistry of Minerals</i> <b>13</b> (1986), 69                           |
| Philipsbornite        | $\text{PbAl}_3(\text{AsO}_4)(\text{AsO}_3\text{OH})(\text{OH})_6$                                                                        | A  | 1981-029  | Australia        | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1982), 1                                                                            | <i>Mineralogical Magazine</i> <b>76</b> (2012), 839                                     |
| Philipsburgite        | $\text{Cu}_5\text{Zn}(\text{AsO}_4)(\text{PO}_4)(\text{OH})_6(\text{H}_2\text{O})$                                                       | Rd | 2021 s.p. | USA              | <i>Canadian Mineralogist</i> <b>23</b> (1985), 255                                                                                     | <i>Physics and Chemistry of Minerals</i> <b>45</b> (2018), 917                          |
| Phillipsite-Ca        | $\text{Ca}_3(\text{Si}_{10}\text{Al}_6)\text{O}_{32} \cdot 12\text{H}_2\text{O}$                                                         | A  | 1997 s.p. | USA              | <i>American Mineralogist</i> <b>54</b> (1969), 182                                                                                     | <i>European Journal of Mineralogy</i> <b>2</b> (1990), 827                              |
| Phillipsite-K         | $\text{K}_6(\text{Si}_{10}\text{Al}_6)\text{O}_{32} \cdot 12\text{H}_2\text{O}$                                                          | A  | 1997 s.p. | Italy            | Handbuch der Mineralogie. von Veit, Leipzig (1897), 1799                                                                               | <i>Acta Crystallographica</i> <b>B30</b> (1974), 2426                                   |
| Phillipsite-Na        | $\text{Na}_6(\text{Si}_{10}\text{Al}_6)\text{O}_{32} \cdot 12\text{H}_2\text{O}$                                                         | A  | 1997 s.p. | Italy            | <i>Annals of Philosophy</i> <b>10</b> (1825), 361                                                                                      | <i>American Mineralogist</i> <b>94</b> (2009), 190                                      |
| Philolithite          | $\text{Pb}_{12}\text{O}_6\text{Mn}_7(\text{SO}_4)(\text{CO}_3)_4\text{Cl}_4(\text{OH})_{12}$                                             | A  | 1996-020  | Sweden           | <i>Mineralogical Record</i> <b>29</b> (1998), 201                                                                                      | <i>American Mineralogist</i> <b>85</b> (2000), 810                                      |
| Philoxenite           | $(\text{K}, \text{Na}, \text{Pb})_4(\text{Na}, \text{Ca})_2(\text{Mg}, \text{Cu})_3(\text{Fe}^{3+}_{0.5}\text{Al}_{0.5})(\text{SO}_4)_8$ | A  | 2015-108  | Russia           | <i>Zapiski Rossiyskogo Mineralogicheskogo Obshchestva</i> <b>149(4)</b> (2020), 67                                                     | <i>Crystallography Reports</i> <b>66</b> (2021), 60                                     |
| Philrothite           | $\text{TiAs}_3\text{S}_5$                                                                                                                | A  | 2013-066  | Switzerland      | <i>Mineralogical Magazine</i> <b>78</b> (2014), 1                                                                                      |                                                                                         |
| Phlogopite            | $\text{KMg}_3(\text{AlSi}_3\text{O}_{10})(\text{OH})_2$                                                                                  | G  | 1841      | unknown          | Vollständiges Handbuch der Mineralogie, Vol. 2. Arnoldische, Dresden und Leipzig (1841), 398                                           | <i>Canadian Mineralogist</i> <b>39</b> (2001), 1333                                     |
| Phoenicochroite       | $\text{Pb}_2\text{O}(\text{CrO}_4)$                                                                                                      | A  | 1980 s.p. | Russia           | Grundriss der Mineralogie, mit Einschluss der Geognosie und Petrefactenkunde. Schrag, Nurnberg (1839), 612                             | <i>Zeitschrift für Kristallographie - New Crystal Structures</i> <b>225</b> (2010), 219 |
| Phosgenite            | $\text{Pb}_2(\text{CO}_3)\text{Cl}_2$                                                                                                    | G  | 1841      | United Kingdom   | Vollständiges Handbuch der Mineralogie, Vol. 2. Arnoldische, Dresden und Leipzig (1841), 183                                           | <i>Mineralogical Magazine</i> <b>90</b> (2026), 408                                     |
| Phosinaite-(Ce)       | $\text{Na}_{13}\text{Ca}_2\text{Ce}(\text{SiO}_3)_4(\text{PO}_4)_4$                                                                      | A  | 1973-058  | Russia           | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>103</b> (1974), 567                                                      | <i>Canadian Mineralogist</i> <b>34</b> (1996), 107                                      |
| Phosphammite          | $(\text{NH}_4)_2(\text{PO}_3\text{OH})$                                                                                                  | G  | 1870      | Peru / Australia | <i>The Rural Carolinian</i> <b>1</b> (1870), 469                                                                                       | <i>Mineralogical Magazine</i> <b>39</b> (1973), 346                                     |
| Phosphocyclite-(Fe)   | $\text{Fe}^{2+}_2(\text{P}_4\text{O}_{12})$                                                                                              | A  | 2020-087  | Israel           | CNMNC Newsletter 60 - <i>Mineralogical Magazine</i> <b>85</b> (2021), 454; <i>European Journal of Mineralogy</i> <b>33</b> (2021), 203 |                                                                                         |
| Phosphocyclite-(Ni)   | $\text{Ni}_2(\text{P}_4\text{O}_{12})$                                                                                                   | A  | 2020-088  | Israel           | CNMNC Newsletter 60 - <i>Mineralogical Magazine</i> <b>85</b> (2021), 454; <i>European Journal of Mineralogy</i> <b>33</b> (2021), 203 |                                                                                         |
| Phosphoellenbergerite | $(\text{Mg}, \square)_2\text{Mg}_{12}(\text{PO}_4, \text{PO}_3\text{OH})_6(\text{PO}_3\text{OH}, \text{CO}_3)_2(\text{OH})_6$            | A  | 1994-006  | Italy            | <i>American Mineralogist</i> <b>81</b> (1996), 385                                                                                     | <i>Crystallography Reports</i> <b>52</b> (2007), 199                                    |
| Phosphoferrite        | $\text{Fe}^{2+}_3(\text{PO}_4)_2(\text{H}_2\text{O})_3$                                                                                  | Rd | 1980 s.p. | Germany          | <i>Zeitschrift für Kristallographie und Mineralogie</i> <b>55</b> (1920), 523                                                          | <i>Inorganic Chemistry</i> <b>15</b> (1976), 316                                        |
| Phosphofibrite        | $(\text{H}_2\text{O}, \text{K})_{3.5}\text{Fe}^{3+}_8(\text{PO}_4)_6(\text{OH})_7(\text{H}_2\text{O})_5$                                 | A  | 1982-082  | Germany          | <i>Chemie der Erde</i> <b>43</b> (1984), 11                                                                                            | <i>American Mineralogist</i> <b>94</b> (2009), 720                                      |
| Phosphogartrellite    | $\text{PbCuFe}^{3+}(\text{PO}_4)_2(\text{OH})(\text{H}_2\text{O})$                                                                       | A  | 1996-035  | Germany          | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1988), 111                                                                          |                                                                                         |
| Phosphohedyphane      | $\text{Ca}_2\text{Pb}_3(\text{PO}_4)_3\text{Cl}$                                                                                         | A  | 2005-026  | Chile            | <i>American Mineralogist</i> <b>91</b> (2006), 1909                                                                                    |                                                                                         |
| Phosphoinnelite       | $\text{Na}_3\text{Ba}_4\text{Ti}_3\text{Si}_4\text{O}_{14}(\text{PO}_4)_2\text{O}_2\text{F}$                                             | A  | 2005-022  | Russia           | <i>Zapiski Rossiyskogo Mineralogicheskogo Obshchestva</i> <b>135(3)</b> (2006), 52                                                     |                                                                                         |
| Phosphophyllite       | $\text{Zn}_2\text{Fe}^{2+}(\text{PO}_4)_2(\text{H}_2\text{O})_4$                                                                         | G  | 1920      | Germany          | <i>Zeitschrift für Kristallographie und Mineralogie</i> <b>55</b> (1920), 523                                                          | <i>Journal of Materials Chemistry</i> <b>2</b> (1992), 1123                             |
| Phosphorrösslerite    | $\text{Mg}(\text{PO}_3\text{OH})(\text{H}_2\text{O})_6 \cdot \text{H}_2\text{O}$                                                         | G  | 1939      | Austria          | <i>Centralblatt für Mineralogie</i> (1939), 142                                                                                        | <i>Zeitschrift für Kristallographie</i> <b>137</b> (1973), 246                          |

|                      |                                                                                                                 |    |           |                                  |                                                                                                     |                                                                                       |
|----------------------|-----------------------------------------------------------------------------------------------------------------|----|-----------|----------------------------------|-----------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Phosphosiderite      | $\text{Fe}^{3+}(\text{PO}_4)(\text{H}_2\text{O})_2$                                                             | Rn | 1967 s.p. | Germany                          | <i>Zeitschrift für Krystallographie und Mineralogie</i> <b>17</b> (1890), 555                       | <i>Crystal Research and Technology</i> <b>39</b> (2004), 1080                         |
| Phosphovanadylite-Ba | $\text{Ba}[\text{V}^{4+}_4\text{P}_2\text{O}_{12}(\text{OH})_4] \cdot 12\text{H}_2\text{O}$                     | Rn | 1996-037  | USA                              | <i>American Mineralogist</i> <b>83</b> (1998), 889                                                  |                                                                                       |
| Phosphovanadylite-Ca | $\text{Ca}[\text{V}^{4+}_4\text{P}_2\text{O}_{12}(\text{OH})_4] \cdot 12\text{H}_2\text{O}$                     | A  | 2011-101  | USA                              | <i>American Mineralogist</i> <b>98</b> (2013), 439                                                  |                                                                                       |
| Phosphowalpurkite    | $(\text{UO}_2)\text{Bi}_4\text{O}_4(\text{PO}_4)_2(\text{H}_2\text{O})_2$                                       | A  | 2001-062  | Czech Republic                   | <i>Canadian Mineralogist</i> <b>42</b> (2004), 963                                                  |                                                                                       |
| Phosphuranylite      | $\text{KCa}(\text{H}_3\text{O})_3(\text{H}_2\text{O})_8(\text{UO}_2)_7(\text{PO}_4)_4\text{O}_4$                | G  | 1879      | USA                              | <i>American Chemical Journal</i> <b>1</b> (1879), 87                                                | <i>Acta Crystallographica</i> <b>B47</b> (1991), 439                                  |
| Phoxite              | $(\text{NH}_4)_2\text{Mg}_2(\text{C}_2\text{O}_4)(\text{PO}_3\text{OH})_2(\text{H}_2\text{O})_4$                | A  | 2018-009  | USA                              | <i>American Mineralogist</i> <b>104</b> (2019), 973                                                 | <i>American Mineralogist</i> <b>110</b> (2025), 1658                                  |
| Phuralumite          | $\text{Al}_2[(\text{UO}_2)_3(\text{PO}_4)_2\text{O}(\text{OH})](\text{OH})_3(\text{H}_2\text{O})_9$             | A  | 1978-044  | Democratic Republic of the Congo | <i>Bulletin de Minéralogie</i> <b>102</b> (1979), 333                                               | <i>Journal of Geosciences</i> <b>62</b> (2017), 87                                    |
| Phurcalite           | $\text{Ca}_2(\text{H}_2\text{O})_6[(\text{UO}_2)_3\text{O}_2(\text{PO}_4)_2] \cdot \text{H}_2\text{O}$          | A  | 1977-040  | Germany                          | <i>Bulletin de Minéralogie</i> <b>101</b> (1978), 356                                               | <i>Acta Crystallographica</i> <b>B76</b> (2020), 502                                  |
| Phyllorete           | $\text{C}_{18}\text{H}_{18}$                                                                                    | Q  | 1839      | Denmark ?                        | Kongelige Danske Videnskabernes Selskab Forhandling (1839)                                          | Mineralogische Tabellen, 5th ed. Akademische Verlagsgesellschaft, Leipzig (1970), 496 |
| Phyllotungstite      | $\text{H}\text{CaFe}^{3+}_3(\text{WO}_4)_6(\text{H}_2\text{O})_{10}$                                            | A  | 1984-018  | Germany                          | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1984), 529                                       | <i>Mineralogical Magazine</i> <b>77</b> (2013), 57                                    |
| Picaite              | $\text{NaCa}[\text{AsO}_3\text{OH}][\text{AsO}_2(\text{OH})_2]$                                                 | A  | 2018-022  | Chile                            | <i>Mineralogical Magazine</i> <b>83</b> (2019), 655                                                 |                                                                                       |
| Piccoliite           | $\text{NaCaMn}^{3+}_2(\text{AsO}_4)_2\text{O}(\text{OH})$                                                       | A  | 2017-016  | Italy                            | <i>Mineralogical Magazine</i> <b>87</b> (2023), 204                                                 |                                                                                       |
| Pickeringite         | $\text{MgAl}_2(\text{SO}_4)_4(\text{H}_2\text{O})_{17} \cdot 5\text{H}_2\text{O}$                               | G  | 1844      | Chile                            | <i>American Journal of Science and Arts</i> <b>46</b> (1844), 360                                   | <i>European Journal of Mineralogy</i> <b>12</b> (2000), 1131                          |
| Picotpaulite         | $\text{TiFe}_2\text{S}_3$                                                                                       | A  | 1970-031  | North Macedonia                  | <i>Bulletin de la Société Française de Minéralogie et de Cristallographie</i> <b>93</b> (1970), 545 | <i>Acta Chimica Slovenica</i> <b>55</b> (2008), 801                                   |
| Picromerite          | $\text{K}_2\text{Mg}(\text{SO}_4)_2(\text{H}_2\text{O})_6$                                                      | A  | 1982 s.p. | Italy                            | Memoria sullo incendio vesuviano del mese di Maggio 1855. Nobile, Napoli (1855), 192                | <i>American Mineralogist</i> <b>94</b> (2009), 74                                     |
| Picropharmacolite    | $\text{Ca}_4\text{Mg}(\text{AsO}_3\text{OH})_2(\text{AsO}_4)_2(\text{H}_2\text{O})_7 \cdot 4\text{H}_2\text{O}$ | G  | 1819      | Germany                          | <i>Annalen der Physik</i> <b>61</b> (1819), 177                                                     | <i>American Mineralogist</i> <b>66</b> (1981), 385                                    |
| Pieczkaite           | $\text{Mn}_5(\text{PO}_4)_3\text{Cl}$                                                                           | A  | 2014-005  | Canada                           | <i>American Mineralogist</i> <b>100</b> (2015), 1047                                                |                                                                                       |
| Piemontite           | $\text{Ca}_2(\text{Al}_2\text{Mn}^{3+})(\text{Si}_2\text{O}_7)(\text{SiO}_4)\text{O}(\text{OH})$                | A  | 1962 s.p. | Italy                            | Das Mohs'sche Mineralsystem. Gerold, Wien (1853), 74                                                | <i>Journal of Mineralogical and Petrological Sciences</i> <b>115</b> (2020), 391      |
| Piemontite-(Pb)      | $\text{CaPb}(\text{Al}_2\text{Mn}^{3+})(\text{Si}_2\text{O}_7)(\text{SiO}_4)\text{O}(\text{OH})$                | A  | 2011-087  | North Macedonia                  | <i>Neues Jahrbuch für Mineralogie Abhandlungen</i> <b>189</b> (2012), 275                           |                                                                                       |
| Piemontite-(Sr)      | $\text{CaSr}(\text{Al}_2\text{Mn}^{3+})(\text{Si}_2\text{O}_7)(\text{SiO}_4)\text{O}(\text{OH})$                | Rn | 1989-031  | Italy                            | <i>European Journal of Mineralogy</i> <b>2</b> (1990), 519                                          |                                                                                       |
| Piergorite-(Ce)      | $\text{Ca}_8\text{Ce}_2\text{AlLiSi}_6\text{B}_8\text{O}_{36}(\text{OH})_2$                                     | A  | 2005-008  | Italy                            | <i>American Mineralogist</i> <b>91</b> (2006), 1170                                                 |                                                                                       |
| Pierrotite           | $\text{Ti}_2(\text{Sb,As})_{10}\text{S}_{16}$                                                                   | A  | 1969-036  | France                           | <i>Bulletin de la Société Française de Minéralogie et de Cristallographie</i> <b>93</b> (1970), 66  | <i>Zeitschrift für Kristallographie</i> <b>165</b> (1983), 209                        |
| Pigeonite            | $(\text{Mg,Fe,Ca})_2\text{Si}_2\text{O}_6$                                                                      | A  | 1988 s.p. | USA                              | <i>American Geologist</i> <b>26</b> (1900), 197                                                     | <i>American Mineralogist</i> <b>88</b> (2003), 1115                                   |
| Pigotite             | $\text{Al}_4\text{C}_6\text{H}_5\text{O}_{10} \cdot 13\text{H}_2\text{O}$ (?)                                   | Q  | 1840      | United Kingdom                   | <i>Philosophical Magazine</i> <b>17</b> (1840), 382                                                 | <i>Comunicações Geológicas</i> <b>97</b> (2010), 71                                   |
| Piilonenite-(Nd)     | $\text{NaNd}(\text{CO}_3)_2(\text{H}_2\text{O})_3$                                                              | A  | 2025-031b | Canada                           | <i>European Journal of Mineralogy</i> <b>38</b> (2026), 337                                         |                                                                                       |
| Pilanesbergite       | $\text{Na}_2\text{Ca}_2\text{Fe}_2\text{Ti}_2(\text{Si}_2\text{O}_7)_2\text{O}_2\text{F}_2$                     | A  | 2023-007  | South Africa                     | <i>European Journal of Mineralogy</i> <b>36</b> (2024), 73                                          |                                                                                       |
| Pilawite-(Y)         | $\text{Ca}_2\text{Y}_2\text{Al}_4(\text{SiO}_4)_4\text{O}_2(\text{OH})_2$                                       | A  | 2013-125  | Poland                           | <i>Mineralogical Magazine</i> <b>79</b> (2015), 1143                                                |                                                                                       |

|               |                                                                                                                                         |    |           |                                  |                                                                                                                                        |                                                                      |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------|----|-----------|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|
| Pilipenkoite  | KCu(AsO <sub>4</sub> )(H <sub>2</sub> O)                                                                                                | A  | 2022-017  | Russia                           | CNMNC Newsletter 68 - <i>Mineralogical Magazine</i> <b>86</b> (2022), 854; <i>European Journal of Mineralogy</i> <b>34</b> (2022), 385 |                                                                      |
| Pillaite      | Pb <sub>9</sub> Sb <sub>10</sub> S <sub>23</sub> ClO <sub>0.5</sub>                                                                     | A  | 1997-042  | Italy                            | <i>European Journal of Mineralogy</i> <b>13</b> (2001), 605                                                                            | <i>European Journal of Mineralogy</i> <b>13</b> (2001), 779          |
| Pilsenite     | Bi <sub>4</sub> Te <sub>3</sub>                                                                                                         | Rd | 1982 s.p. | Hungary                          | Das Mohs'sche Mineralsystem. Gerold, Wien (1853), 121                                                                                  | <i>Acta Crystallographica</i> <b>B35</b> (1979), 147                 |
| Pinakioleite  | (Mg,Mn) <sub>2</sub> (Mn <sup>3+</sup> ,Sb <sup>5+</sup> )O <sub>2</sub> (BO <sub>3</sub> )                                             | G  | 1890      | Sweden                           | <i>Zeitschrift für Kristallographie</i> <b>18</b> (1890), 361                                                                          | <i>Zeitschrift für Kristallographie</i> <b>191</b> (1990), 105       |
| Pinalite      | Pb <sub>3</sub> (WO <sub>4</sub> )OC <sub>l</sub> <sub>2</sub>                                                                          | A  | 1988-025  | USA                              | <i>American Mineralogist</i> <b>74</b> (1989), 934                                                                                     | <i>American Mineralogist</i> <b>85</b> (2000), 806                   |
| Pinchite      | Hg <sub>5</sub> O <sub>4</sub> Cl <sub>2</sub>                                                                                          | A  | 1973-052  | USA                              | <i>Canadian Mineralogist</i> <b>12</b> (1974), 417                                                                                     | <i>American Mineralogist</i> <b>79</b> (1994), 1199                  |
| Pingguite     | Bi <sub>6</sub> Te <sup>6+</sup> <sub>2</sub> O <sub>15</sub>                                                                           | A  | 1993-019  | China                            | <i>Acta Mineralogica Sinica</i> <b>14</b> (1994), 315                                                                                  | <i>Physics and Chemistry of Minerals</i> <b>47</b> (2020), 53        |
| Pinnoite      | MgB <sub>2</sub> O(OH) <sub>6</sub>                                                                                                     | G  | 1884      | Germany                          | <i>Berichte der Deutschen Chemischen Gesellschaft</i> <b>17</b> (1884), 1584                                                           | <i>Soviet Physics - Crystallography</i> <b>28</b> (1983), 475        |
| Pintadoite    | Ca <sub>2</sub> V <sup>5+</sup> <sub>2</sub> O <sub>7</sub> ·9H <sub>2</sub> O                                                          | Q  | 1914      | USA                              | <i>Journal of the Washington Academy of Sciences</i> <b>4</b> (1914), 576                                                              |                                                                      |
| Piretite      | Ca(UO <sub>2</sub> ) <sub>3</sub> (Se <sup>4+</sup> O <sub>3</sub> ) <sub>2</sub> (OH) <sub>4</sub> ·4H <sub>2</sub> O                  | A  | 1996-002  | Democratic Republic of the Congo | <i>Canadian Mineralogist</i> <b>34</b> (1996), 1317                                                                                    |                                                                      |
| Pirquitasite  | Ag <sub>2</sub> ZnSnS <sub>4</sub>                                                                                                      | A  | 1980-091  | Argentina                        | <i>Bulletin de Minéralogie</i> <b>105</b> (1982), 229                                                                                  | <i>Acta Crystallographica</i> <b>E69</b> (2013), i8                  |
| Pirssonite    | Na <sub>2</sub> Ca(CO <sub>3</sub> ) <sub>2</sub> (H <sub>2</sub> O) <sub>2</sub>                                                       | A  | 1896      | USA                              | <i>American Journal of Science</i> <b>152</b> (1896), 123                                                                              | <i>Journal of Mineralogy and Geochemistry</i> <b>190</b> (2013), 221 |
| Písekite-(Y)  | (Y,As,Ca,Fe,U)(Nb,Ti,Ta)O <sub>4</sub>                                                                                                  | Q  | 1923      | Czech Republic                   | <i>Časopis pro Mineralogii a Geologii</i> <b>1</b> (1923), 2                                                                           | <i>Lithos</i> <b>5</b> (1972), 93                                    |
| Pitiglianoite | K <sub>2</sub> Na <sub>6</sub> (Si <sub>6</sub> Al <sub>6</sub> )O <sub>24</sub> (SO <sub>4</sub> )(H <sub>2</sub> O) <sub>2</sub>      | A  | 1990-012  | Italy                            | <i>American Mineralogist</i> <b>76</b> (1991), 2003                                                                                    | <i>Microporous and Mesoporous Materials</i> <b>99</b> (2007), 225    |
| Pitticite     | [Fe,AsO <sub>4</sub> ,SO <sub>4</sub> ,H <sub>2</sub> O] (?)                                                                            | Q  | 1813      | Germany                          | Handbuch der Mineralogie, Vol. 1. Vandenhoeck und Ruprecht, Göttingen (1813), 285                                                      | <i>Mineralogical Magazine</i> <b>46</b> (1982), 261                  |
| Pittongite    | (Na,H <sub>2</sub> O) <sub>0.7</sub> (W,Fe <sup>3+</sup> )(O,OH) <sub>3</sub>                                                           | A  | 2005-034a | Australia                        | <i>Canadian Mineralogist</i> <b>45</b> (2007), 857                                                                                     | <i>Journal of Solid State Chemistry</i> <b>179</b> (2006), 3860      |
| Piypite       | K <sub>4</sub> Cu <sub>4</sub> O <sub>2</sub> (SO <sub>4</sub> ) <sub>4</sub> ·(Na,Cu)Cl                                                | A  | 1982-097  | Russia                           | <i>Doklady Akademii Nauk SSSR</i> <b>275</b> (1984), 714                                                                               | <i>Glass Physics and Chemistry</i> <b>49</b> (2023), 386             |
| Pizgrischite  | (Cu,Fe)Cu <sub>14</sub> PbBi <sub>17</sub> S <sub>34</sub>                                                                              | A  | 2001-002  | Switzerland                      | <i>Canadian Mineralogist</i> <b>45</b> (2007), 1229                                                                                    |                                                                      |
| Plagionite    | Pb <sub>5</sub> Sb <sub>8</sub> S <sub>17</sub>                                                                                         | G  | 1833      | Germany                          | <i>Annalen der Physik und Chemie</i> <b>28</b> (1833), 421                                                                             | <i>European Journal of Mineralogy</i> <b>32</b> (2020), 623          |
| Plancheite    | Cu <sub>8</sub> (Si <sub>4</sub> O <sub>11</sub> ) <sub>2</sub> (OH) <sub>4</sub> ·H <sub>2</sub> O                                     | Rd | 1967 s.p. | Republic of the Congo            | <i>Comptes Rendus de l'Académie des Sciences de Paris</i> <b>146</b> (1908), 722                                                       | <i>American Mineralogist</i> <b>62</b> (1977), 491                   |
| Planerite     | Al <sub>6</sub> (PO <sub>4</sub> ) <sub>2</sub> (PO <sub>3</sub> OH) <sub>2</sub> (OH) <sub>8</sub> (H <sub>2</sub> O) <sub>4</sub>     | Rd | 1998 s.p. | Russia                           | <i>Bulletin de la Société Impériale des Naturalistes de Moscou</i> <b>35</b> (1862), 240                                               | <i>Mineralogical Magazine</i> <b>62</b> (1998), 63                   |
| Plášilite     | Na(UO <sub>2</sub> )(SO <sub>4</sub> )(OH)(H <sub>2</sub> O) <sub>2</sub>                                                               | A  | 2014-021  | USA                              | <i>Journal of Geosciences</i> <b>60</b> (2015), 1                                                                                      |                                                                      |
| Platinum      | Pt                                                                                                                                      | G  | 1748      | Colombia                         | Relacion Historica del Viage a la America Meridional. Antonio Marin, Madrid (1748), 606                                                | <i>Mineralogical Magazine</i> <b>84</b> (2020), 289                  |
| Plattnerite   | PbO <sub>2</sub>                                                                                                                        | G  | 1845      | United Kingdom                   | Handbuch der Bestimmenden Mineralogie. Braumüller and Seidel, Wien (1845), 499                                                         | <i>Zeitschrift für Naturforschung</i> <b>74b</b> (2019), 427         |
| Plavnoite     | K <sub>0.8</sub> Mn <sub>0.6</sub> [(UO <sub>2</sub> ) <sub>2</sub> O <sub>2</sub> (SO <sub>4</sub> )](H <sub>2</sub> O) <sub>3.5</sub> | A  | 2015-059  | Czech Republic                   | <i>European Journal of Mineralogy</i> <b>29</b> (2017), 117                                                                            |                                                                      |

|                        |                                                                                                                                    |    |           |                                           |                                                                                                                                        |                                                                           |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------|----|-----------|-------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|
| Playfairite            | $\text{Pb}_{16}(\text{Sb,As})_{19}\text{S}_{44}\text{Cl}$                                                                          | A  | 1966-019  | Canada                                    | <i>Canadian Mineralogist</i> <b>9</b> (1967), 191                                                                                      |                                                                           |
| Plechovite             | $\text{Ca}_2[\text{K}(\text{H}_2\text{O})]\text{KBe}_3\text{Si}_{12}\text{O}_{30}$                                                 | A  | 2025-045a | Poland                                    | CNMNC Newsletter 90 - <i>Mineralogical Magazine</i> <b>90</b> (2026), xxx; <i>European Journal of Mineralogy</i> <b>38</b> (2026), 231 |                                                                           |
| Pleysteinite           | $[(\text{H}_2\text{O})\text{K}]\text{Mn}_2\text{Al}_3(\text{PO}_4)_4\text{F}_2(\text{H}_2\text{O})_{10} \cdot 4\text{H}_2\text{O}$ | A  | 2022-077  | Germany                                   | <i>European Journal of Mineralogy</i> <b>35</b> (2023), 189                                                                            | <i>Canadian Journal of Mineralogy and Petrology</i> <b>62</b> (2024), 513 |
| Plimerite              | $\text{Zn}_2\text{Fe}^{3+}_3(\text{PO}_4)_3(\text{OH})_4(\text{H}_2\text{O})$                                                      | A  | 2008-013  | Australia                                 | <i>Mineralogical Magazine</i> <b>73</b> (2009), 131                                                                                    | <i>Journal of Geosciences</i> <b>56</b> (2011), 215                       |
| Pliniusite             | $\text{Ca}_5(\text{VO}_4)_3\text{F}$                                                                                               | A  | 2018-031  | Russia / Israel                           | <i>American Mineralogist</i> <b>107</b> (2022), 1626                                                                                   |                                                                           |
| Plombièreite           | $[\text{Ca}(\text{H}_2\text{O})_5]\text{Ca}_4\text{Si}_6\text{O}_{16}(\text{OH})_2(\text{H}_2\text{O})_2$                          | Rd | 2014 s.p. | France                                    | <i>Annales des Mines</i> <b>13</b> (1858), 227                                                                                         | <i>Journal of the American Ceramic Society</i> <b>88</b> (2005), 505      |
| Plumboagardite         | $\text{PbCu}_6(\text{AsO}_4)_2(\text{AsO}_3\text{OH})(\text{OH})_6(\text{H}_2\text{O})_3$                                          | A  | 2003-031a | Germany                                   | <i>Neues Jahrbuch für Mineralogie Abhandlungen</i> <b>181</b> (2005), 219                                                              |                                                                           |
| Plumboferrite          | $\text{Pb}[\text{Fe}^{3+}_{10.67}\text{Mn}^{2+}_{0.33}\text{Pb}]\text{O}_{18.33}$                                                  | Rd | 2020 s.p. | Sweden                                    | <i>Öfversigt af Kongliga Vetenskaps-Akademiens Förhandlingar</i> <b>38</b> (1881), 27                                                  | <i>American Mineralogist</i> <b>80</b> (1995), 1065                       |
| Plumbogaidonnayite     | $\text{PbZrSi}_3\text{O}_9(\text{H}_2\text{O})_2$                                                                                  | A  | 2022-095  | China                                     | <i>Mineralogical Magazine</i> <b>88</b> (2024), 185                                                                                    |                                                                           |
| Plumbogottlobite       | $\text{PbMg}(\text{VO}_4)(\text{OH})$                                                                                              | A  | 2025-075  | Germany                                   | <i>European Journal of Mineralogy</i> <b>38</b> (2026), 209                                                                            |                                                                           |
| Plumbogummite          | $\text{PbAl}_3(\text{PO}_4)(\text{PO}_3\text{OH})(\text{OH})_6$                                                                    | Rd | 1999 s.p. | France                                    | Treatise on Mineralogy, 2nd Part. Hezekiah Howe & Co., New Haven (1835), 113                                                           | <i>Mineralogical Magazine</i> <b>75</b> (2011), 145                       |
| Plumbojarosite         | $\text{Pb}_{0.5}\text{Fe}^{3+}_3(\text{SO}_4)_2(\text{OH})_6$                                                                      | Rd | 1987 s.p. | USA                                       | <i>American Journal of Science</i> <b>14</b> (1902), 211                                                                               | <i>Canadian Mineralogist</i> <b>48</b> (2010), 651                        |
| Plumbojohntomaite      | $\text{PbFe}^{2+}_2\text{Fe}^{3+}_2(\text{PO}_4)_3(\text{OH})_3$                                                                   | A  | 2023-119  | China                                     | <i>American Mineralogist</i> <b>110</b> (2025), 1614                                                                                   |                                                                           |
| Plumbonacrite          | $\text{Pb}_5(\text{CO}_3)_3\text{O}(\text{OH})_2$                                                                                  | Rd | 1889      | United Kingdom                            | <i>Mineralogical Magazine</i> <b>8</b> (1889), 200                                                                                     | <i>Mineralogical Magazine</i> <b>64</b> (2000), 1069                      |
| Plumbopalladinite      | $\text{Pd}_3\text{Pb}_2$                                                                                                           | A  | 1970-020  | Russia                                    | <i>Geologiya Rudnykh Mestorozhdeniy</i> <b>5</b> (1970), 63                                                                            |                                                                           |
| Plumboperloffite       | $\text{PbMn}^{2+}_2\text{Fe}^{3+}_2(\text{PO}_4)_3(\text{OH})_3$                                                                   | A  | 2020-007  | Australia                                 | <i>Mineralogical Magazine</i> <b>88</b> (2024), 170                                                                                    |                                                                           |
| Plumbopharmacosiderite | $\text{Pb}_{0.5}\text{Fe}^{3+}_4(\text{AsO}_4)_3(\text{OH})_4 \cdot 5\text{H}_2\text{O}$                                           | A  | 2016-109  | Italy                                     | <i>Canadian Mineralogist</i> <b>56</b> (2018), 143                                                                                     |                                                                           |
| Plumbophyllite         | $\text{Pb}_2\text{Si}_4\text{O}_{10}(\text{H}_2\text{O})$                                                                          | A  | 2008-025  | USA                                       | <i>American Mineralogist</i> <b>94</b> (2009), 1198                                                                                    |                                                                           |
| Plumboselite           | $\text{Pb}_3\text{O}_2(\text{SeO}_3)$                                                                                              | A  | 2010-028  | Namibia                                   | <i>Mineralogy and Petrology</i> <b>101</b> (2011), 75                                                                                  |                                                                           |
| Plumbotellurite        | $\text{Pb}(\text{Te}^{4+}\text{O}_3)$                                                                                              | A  | 1980-102  | Kazakhstan                                | <i>Doklady Akademii Nauk SSSR</i> <b>262</b> (1982), 1231                                                                              | <i>Mineralogical Magazine</i> <b>83</b> (2019), 791                       |
| Plumbotsumite          | $\text{Pb}_5\text{Si}_4\text{O}_8(\text{OH})_{10}$                                                                                 | A  | 1979-049  | Namibia                                   | <i>Chemie der Erde</i> <b>41</b> (1982), 1                                                                                             |                                                                           |
| Plumosite              | $\text{Pb}_2\text{Sb}_2\text{S}_5$                                                                                                 | Q  | 1845      | Germany                                   | Handbuch der Bestimmenden Mineralogie. Braumüller and Seidel, Wien (1845), 569                                                         | <i>Geologica Carpathica</i> <b>48</b> (1997), 387                         |
| Podlesnoite            | $\text{Ca}_2\text{Ba}(\text{CO}_3)_2\text{F}_2$                                                                                    | A  | 2006-033  | Russia                                    | <i>Mineralogical Record</i> <b>39</b> (2008), 137                                                                                      | <i>Zeitschrift für Kristallographie</i> <b>222</b> (2007), 474            |
| Poellmannite           | $\text{Ca}_6\text{Al}_3(\text{OH})_{18}[\text{Na}(\text{H}_2\text{O})_6](\text{SO}_4)_2 \cdot 6\text{H}_2\text{O}$                 | A  | 2021-109  | Israel                                    | CNMNC Newsletter 66 - <i>Mineralogical Magazine</i> <b>86</b> (2022), 359; <i>European Journal of Mineralogy</i> <b>34</b> (2022), 253 |                                                                           |
| Pohlite                | $\text{Pb}_7(\text{IO}_3)(\text{OH})_4\text{Cl}_9$                                                                                 | A  | 2022-043  | Chile                                     | <i>Mineralogical Magazine</i> <b>87</b> (2023), 171                                                                                    |                                                                           |
| Poirierite             | $\text{Mg}_2\text{SiO}_4$                                                                                                          | A  | 2018-026b | China (meteorite) / Australia (meteorite) | <i>Communications Earth &amp; Environment</i> <b>2</b> (2021), 16                                                                      |                                                                           |
| Poitevinite            | $\text{Cu}(\text{SO}_4)(\text{H}_2\text{O})$                                                                                       | A  | 1963-010  | Canada                                    | <i>Canadian Mineralogist</i> <b>8</b> (1964), 109                                                                                      | <i>Canadian Mineralogist</i> <b>32</b> (1994), 873                        |

|                    |                                                                                                                                                 |    |           |                     |                                                                                        |                                                                                  |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|----|-----------|---------------------|----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
| Pokhodyashinite    | $\text{CuTiSb}_2(\text{Sb}_{1-x}\text{Ti}_x)\text{AsS}_{7-x}$ (0.2<x<0.5)                                                                       | A  | 2019-130  | Russia              | <i>Journal of Geosciences</i> <b>67</b> (2022), 41                                     |                                                                                  |
| Pokrovskite        | $\text{Mg}_2(\text{CO}_3)(\text{OH})_2$                                                                                                         | A  | 1982-054  | Kazakhstan          | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>113</b> (1984), 90       | <i>European Journal of Mineralogy</i> <b>18</b> (2006), 787                      |
| Polarite           | $\text{Pd}(\text{Bi}, \text{Pb})$                                                                                                               | A  | 1969-032  | Russia              | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>98</b> (1969), 708       | <i>Journal of the Less-Common Metals</i> <b>66</b> (1979), 1                     |
| Poldervaartite     | $\text{Ca}(\text{Ca}, \text{Mn})(\text{SiO}_3\text{OH})(\text{OH})$                                                                             | A  | 1992-012  | South Africa        | <i>American Mineralogist</i> <b>78</b> (1993), 1082                                    | <i>Acta Crystallographica</i> <b>C50</b> (1994), 996                             |
| Polekhovskiyite    | $\text{MoNiP}_2$                                                                                                                                | A  | 2018-147  | Israel              | <i>American Mineralogist</i> <b>107</b> (2022), 2201                                   |                                                                                  |
| Polezhaevaite-(Ce) | $\text{NaSrCeF}_6$                                                                                                                              | A  | 2009-015  | Russia              | <i>American Mineralogist</i> <b>95</b> (2010), 1080                                    |                                                                                  |
| Polhemusite        | $(\text{Zn}, \text{Hg})\text{S}$                                                                                                                | A  | 1972-017  | USA                 | <i>American Mineralogist</i> <b>63</b> (1978), 1153                                    |                                                                                  |
| Polkanovite        | $\text{Rh}_{12}\text{As}_7$                                                                                                                     | A  | 1997-030  | Russia              | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>127(2)</b> (1998), 60  | <i>Journal of the Less-Common Metals</i> <b>108</b> (1985), 353                  |
| Polkovicite        | $(\text{Fe}, \text{Pb})_3(\text{Ge}, \text{Fe})_{1-x}\text{S}_4$                                                                                | A  | 1974-037  | Poland              | <i>Rudy i Metale Niezelazne</i> <b>20</b> (1975), 288                                  |                                                                                  |
| Polloneite         | $\text{AgPb}_{46}\text{As}_{26}\text{Sb}_{23}\text{S}_{120}$                                                                                    | A  | 2014-093  | Italy               | <i>Mineralogical Magazine</i> <b>81</b> (2017), 1303                                   |                                                                                  |
| Pollucite          | $\text{Cs}(\text{Si}_2\text{Al})\text{O}_6 \cdot n\text{H}_2\text{O}$                                                                           | A  | 1997 s.p. | Italy               | <i>Annalen der Physik und Chemie</i> <b>69</b> (1846), 439                             | <i>Zeitschrift für Kristallographie</i> <b>223</b> (2008), 584                   |
| Polyakovite-(Ce)   | $(\text{Ce}, \text{Ca})_4\text{MgCr}_2(\text{Ti}, \text{Nb})_2(\text{Si}_2\text{O}_7)_2\text{O}_8$                                              | A  | 1998-029  | Russia              | <i>Canadian Mineralogist</i> <b>39</b> (2001), 1095                                    |                                                                                  |
| Polyarsite         | $\text{Na}_7\text{CaMgCu}_2(\text{AsO}_4)_4\text{F}_2\text{Cl}$                                                                                 | A  | 2019-058  | Russia              | <i>Minerals</i> <b>16</b> (2026), 122                                                  |                                                                                  |
| Polybasite         | $[\text{Ag}_9\text{CuS}_4][(\text{Ag}, \text{Cu})_6(\text{Sb}, \text{As})_2\text{S}_7]$                                                         | Rd | 2006 s.p. | Mexico / Germany    | <i>Annalen der Physik und Chemie</i> <b>15</b> (1829), 573                             | <i>Mineralogical Magazine</i> <b>77</b> (2013), 419                              |
| Polydymite         | $\text{Ni}^{2+}\text{Ni}^{3+}_2\text{S}_4$                                                                                                      | G  | 1876      | Germany             | <i>Journal für Praktische Chemie</i> <b>122</b> (1876), 397                            | <i>American Mineralogist</i> <b>70</b> (1985), 1036                              |
| Polyhalite         | $\text{K}_2\text{Ca}_2\text{Mg}(\text{SO}_4)_4(\text{H}_2\text{O})_2$                                                                           | G  | 1817      | United Kingdom      | <i>Exotic Mineralogy</i> , Vol. 2. Arding and Merrett, London (1817), 101              | <i>Physics and Chemistry of Minerals</i> <b>44</b> (2017), 125                   |
| Polyolithionite    | $\text{KLi}_2\text{AlSi}_4\text{O}_{10}\text{F}_2$                                                                                              | A  | 1998 s.p. | Denmark (Greenland) | <i>Zeitschrift für Kristallographie und Mineralogie</i> <b>9</b> (1884), 243           | <i>Canadian Mineralogist</i> <b>57</b> (2019), 519                               |
| Polyphite          | $\text{Na}_6(\text{Na}_4\text{Ca}_2)_2\text{Na}_2\text{Ti}_2\text{Na}_2\text{Ti}_2(\text{Si}_2\text{O}_7)_2(\text{PO}_4)_6\text{O}_4\text{F}_4$ | Rd | 1990-025  | Russia              | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>121(1)</b> (1992), 105 | <i>Canadian Mineralogist</i> <b>43</b> (2005), 1527                              |
| Pomite             | $\text{Ca}_3[\text{V}^{4+}_5\text{V}^{5+}_{10}\text{O}_{37}(\text{CO}_3)] \cdot 37\text{H}_2\text{O}$                                           | A  | 2021-063  | USA                 | <i>American Mineralogist</i> <b>107</b> (2022), 2143                                   |                                                                                  |
| Ponomarevite       | $\text{K}_4\text{Cu}_4\text{OCl}_{10}$                                                                                                          | A  | 1986-040  | Russia              | <i>Doklady Akademii Nauk SSSR</i> <b>300</b> (1988), 1197                              | <i>Doklady Akademii Nauk SSSR</i> <b>304</b> (1989), 427                         |
| Popovite           | $\text{Cu}_5\text{O}_2(\text{AsO}_4)_2$                                                                                                         | A  | 2013-060  | Russia              | <i>Mineralogical Magazine</i> <b>79</b> (2015), 133                                    |                                                                                  |
| Poppiite           | $\text{Ca}_2(\text{V}^{3+}\text{V}^{3+}_2)(\text{Si}_2\text{O}_7)(\text{SiO}_4)(\text{OH}, \text{O})_2(\text{H}_2\text{O})$                     | A  | 2005-018  | Italy               | <i>American Mineralogist</i> <b>91</b> (2006), 584                                     | <i>Journal of Mineralogical and Petrological Sciences</i> <b>113</b> (2018), 251 |
| Popugaevaite       | $\text{Ca}_3[\text{B}_5\text{O}_6(\text{OH})_6]\text{FCl}_2(\text{H}_2\text{O})_4 \cdot 4\text{H}_2\text{O}$                                    | A  | 2019-115  | Russia              | <i>Mineralogical Magazine</i> <b>89</b> (2025), 225                                    |                                                                                  |
| Portlandite        | $\text{Ca}(\text{OH})_2$                                                                                                                        | G  | 1933      | United Kingdom      | <i>Mineralogical Magazine</i> <b>23</b> (1933), 419                                    | <i>Physics and Chemistry of Minerals</i> <b>34</b> (2007), 223                   |
| Pošepnýite         | $(\text{Cu}^{+}_{3+x}\square_{3-x})(\text{Hg}^{2+}_{4-x}\text{Cu}^{+}_{2+x})\text{Sb}_4(\text{Se}_{12.5}\square_{0.5})$ (0 < x < 2)             | A  | 2018-121a | Czech Republic      | <i>Journal of Geosciences</i> <b>65</b> (2020), 173                                    |                                                                                  |
| Posnjakite         | $\text{Cu}_4(\text{SO}_4)(\text{OH})_6(\text{H}_2\text{O})$                                                                                     | A  | 1967-001  | Kazakhstan          | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>96</b> (1967), 58        | <i>Acta Crystallographica</i> <b>E76</b> (2020), 1136                            |
| Postite            | $\text{Mg}(\text{H}_2\text{O})_6\text{Al}_2(\text{OH})_2(\text{H}_2\text{O})_8(\text{V}_{10}\text{O}_{28}) \cdot 13\text{H}_2\text{O}$          | A  | 2011-060  | USA                 | <i>Canadian Mineralogist</i> <b>50</b> (2012), 45                                      |                                                                                  |
| Potarite           | $\text{PdHg}$                                                                                                                                   | G  | 1928      | Guyana              | <i>Mineralogical Magazine</i> <b>21</b> (1928), 397                                    | <i>Canadian Mineralogist</i> <b>28</b> (1990), 751                               |

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|---------------------------------------|-------------------------------------------------------------------------------------------------------------|----|-----------|------------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|
| Potassic-arfvedsonite                 | $\text{KNa}_2(\text{Fe}^{2+}_4\text{Fe}^{3+})\text{Si}_8\text{O}_{22}(\text{OH})_2$                         | Rd | 2012 s.p. | Denmark (Greenland) / Russia | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (2004), 555                               | <i>Canadian Mineralogist</i> <b>14</b> (1976), 346                        |
| Potassiccarpholite                    | $\text{K}(\text{Mn}^{2+}\text{Li})\text{Al}_4\text{Si}_4\text{O}_{12}(\text{OH})_8$                         | A  | 2002-064  | USA                          | <i>Canadian Mineralogist</i> <b>42</b> (2004), 121                                          |                                                                           |
| Potassic-chloro-hastingsite           | $\text{KCa}_2(\text{Fe}^{2+}_4\text{Fe}^{3+})(\text{Si}_6\text{Al}_2)\text{O}_{22}\text{Cl}_2$              | Rd | 2012 s.p. | Azerbaijan                   | <i>Zapiski Rossiyskogo Mineralogicheskogo Obshchestva</i> <b>134(6)</b> (2005), 31          | <i>European Journal of Mineralogy</i> <b>36</b> (2024), 247               |
| Potassic-chloro-pargasite             | $\text{KCa}_2(\text{Mg}_4\text{Al})(\text{Si}_6\text{Al}_2)\text{O}_{22}\text{Cl}_2$                        | Rd | 2012 s.p. | Russia                       | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>131(2)</b> (2002), 58       |                                                                           |
| Potassic-ferri-leakeite               | $\text{KNa}_2(\text{Mg}_2\text{Fe}^{3+}_2\text{Li})\text{Si}_8\text{O}_{22}(\text{OH})_2$                   | Rd | 2012 s.p. | Japan                        | <i>Journal of Mineralogical and Petrological Sciences</i> <b>97</b> (2002), 177             |                                                                           |
| Potassic-ferro-ferri-sadanagaite      | $\text{KCa}_2(\text{Fe}^{2+}_3\text{Fe}^{3+}_2)(\text{Si}_5\text{Al}_3)\text{O}_{22}(\text{OH})_2$          | Rd | 2012 s.p. | Russia                       | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>128(4)</b> (1999), 50       | <i>Canadian Mineralogist</i> <b>38</b> (2000), 669                        |
| Potassic-ferro-ferri-taramite         | $\text{K}(\text{NaCa})(\text{Fe}^{2+}_3\text{Fe}^{3+}_2)(\text{Si}_6\text{Al}_2)\text{O}_{22}(\text{OH})_2$ | Rd | 2012 s.p. | Tanzania                     | <i>Mineralogical Magazine</i> <b>33</b> (1964), 1057                                        |                                                                           |
| Potassic-ferro-pargasite              | $\text{KCa}_2(\text{Fe}^{2+}_4\text{Al})(\text{Si}_6\text{Al}_2)\text{O}_{22}(\text{OH})_2$                 | Rd | 2012 s.p. | Japan                        | <i>Journal of Mineralogical and Petrological Sciences</i> <b>104</b> (2009), 374            |                                                                           |
| Potassic-ferro-sadanagaite            | $\text{KCa}_2(\text{Fe}^{2+}_3\text{Al}_2)(\text{Si}_5\text{Al}_3)\text{O}_{22}(\text{OH})_2$               | Rd | 2012 s.p. | Japan                        | <i>American Mineralogist</i> <b>69</b> (1984), 465                                          |                                                                           |
| Potassic-ferro-taramite               | $\text{K}(\text{NaCa})(\text{Fe}^{2+}_3\text{Al}_2)(\text{Si}_6\text{Al}_2)\text{O}_{22}(\text{OH})_2$      | Rd | 2012 s.p. | Spain                        | <i>European Journal of Mineralogy</i> <b>20</b> (2008), 1005                                |                                                                           |
| Potassic-fluoro-hastingsite           | $\text{KCa}_2(\text{Fe}^{2+}_4\text{Fe}^{3+})(\text{Si}_6\text{Al}_2)\text{O}_{22}\text{F}_2$               | Rd | 2012 s.p. | USA                          | <i>Canadian Mineralogist</i> <b>47</b> (2009), 909                                          |                                                                           |
| Potassic-fluoro-pargasite             | $\text{KCa}_2(\text{Mg}_4\text{Al})(\text{Si}_6\text{Al}_2)\text{O}_{22}\text{F}_2$                         | Rd | 2012 s.p. | Madagascar                   | <i>Mineralogical Magazine</i> <b>74</b> (2010), 961                                         |                                                                           |
| Potassic-fluoro-richterite            | $\text{K}(\text{NaCa})\text{Mg}_5\text{Si}_8\text{O}_{22}\text{F}_2$                                        | Rd | 2012 s.p. | Italy                        | <i>Rendiconti dell'Accademia Nazionale dei Lincei, Serie IX</i> <b>3</b> (1992), 239        | <i>Canadian Journal of Mineralogy and Petrology</i> <b>63</b> (2025), 141 |
| Potassic-hastingsite                  | $\text{KCa}_2(\text{Fe}^{2+}_4\text{Fe}^{3+})(\text{Si}_6\text{Al}_2)\text{O}_{22}(\text{OH})_2$            | A  | 2018-160  | China                        | <i>Mineralogy and Petrology</i> <b>114</b> (2020), 403                                      | <i>Minerals</i> <b>11</b> (2021), 1049                                    |
| Potassic-jeanlouisite                 | $\text{K}(\text{NaCa})(\text{Mg}_4\text{Ti})\text{Si}_8\text{O}_{22}\text{O}_2$                             | A  | 2018-050  | USA                          | <i>Mineralogical Magazine</i> <b>83</b> (2019), 587                                         |                                                                           |
| Potassic-magnesio-arfvedsonite        | $\text{KNa}_2(\text{Mg}_4\text{Fe}^{3+})\text{Si}_8\text{O}_{22}(\text{OH})_2$                              | A  | 2016-083  | Bulgaria                     | <i>Mineralogical Magazine</i> <b>83</b> (2019), 465                                         | <i>Physics and Chemistry of Minerals</i> <b>46</b> (2019), 181            |
| Potassic-magnesio-fluoro-arfvedsonite | $\text{KNa}_2(\text{Mg}_4\text{Fe}^{3+})\text{Si}_8\text{O}_{22}\text{F}_2$                                 | Rd | 2012 s.p. | Canada                       | <i>Canadian Mineralogist</i> <b>25</b> (1987), 739                                          | <i>Mineralogical Magazine</i> <b>74</b> (2010), 951                       |
| Potassic-magnesio-hastingsite         | $\text{KCa}_2(\text{Mg}_4\text{Fe}^{3+})(\text{Si}_6\text{Al}_2)\text{O}_{22}(\text{OH})_2$                 | Rd | 2012 s.p. | Russia                       | <i>Zapiski Rossiyskogo Mineralogicheskogo Obshchestva</i> <b>135(2)</b> (2006), 49          |                                                                           |
| Potassic-mangani-leakeite             | $\text{KNa}_2(\text{Mg}_2\text{Mn}^{3+}_2\text{Li})\text{Si}_8\text{O}_{22}(\text{OH})_2$                   | Rd | 2012 s.p. | South Africa                 | <i>Schweizerische Mineralogische und Petrographische Mitteilungen</i> <b>73</b> (1993), 349 | <i>European Journal of Mineralogy</i> <b>29</b> (2017), 143               |
| Potassic-pargasite                    | $\text{KCa}_2(\text{Mg}_4\text{Al})(\text{Si}_6\text{Al}_2)\text{O}_{22}(\text{OH})_2$                      | Rd | 2012 s.p. | Finland                      | <i>Canadian Mineralogist</i> <b>35</b> (1997), 1535                                         |                                                                           |
| Potassic-richterite                   | $\text{K}(\text{NaCa})\text{Mg}_5\text{Si}_8\text{O}_{22}(\text{OH})_2$                                     | A  | 2017-102  | Sweden                       | <i>Mineralogy and Petrology</i> <b>113</b> (2019), 7                                        |                                                                           |
| Potassic-sadanagaite                  | $\text{KCa}_2(\text{Mg}_3\text{Al}_2)(\text{Si}_5\text{Al}_3)\text{O}_{22}(\text{OH})_2$                    | Rd | 2012 s.p. | Japan                        | <i>American Mineralogist</i> <b>69</b> (1984), 465                                          | <i>Canadian Mineralogist</i> <b>46</b> (2008), 151                        |
| Pottsite                              | $(\text{Pb}_3\text{Bi})\text{Bi}(\text{VO}_4)_4(\text{H}_2\text{O})$                                        | A  | 1986-045  | USA                          | <i>Mineralogical Magazine</i> <b>52</b> (1988), 389                                         | <i>European Journal of Mineralogy</i> <b>28</b> (2016), 137               |

|                      |                                                                                                                       |    |           |                                  |                                                                                                                                        |                                                                                             |
|----------------------|-----------------------------------------------------------------------------------------------------------------------|----|-----------|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| Poubaite             | $\text{PbBi}_2(\text{Se,Te,S})_4$                                                                                     | A  | 1975-015  | Czech Republic                   | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1978), 9                                                                            | <i>Kristallografiya</i> <b>13</b> (1968), 258                                               |
| Poudretteite         | $\text{KNa}_2(\text{B}_3\text{Si}_{12})\text{O}_{30}$                                                                 | A  | 1986-028  | Canada                           | <i>Canadian Mineralogist</i> <b>25</b> (1987), 763                                                                                     |                                                                                             |
| Poughite             | $\text{Fe}^{3+}_2(\text{Te}^{4+}\text{O}_3)_2(\text{SO}_4)(\text{H}_2\text{O})_2 \cdot \text{H}_2\text{O}$            | A  | 1966-048  | Mexico                           | <i>American Mineralogist</i> <b>53</b> (1968), 1075                                                                                    | <i>Journal of Geosciences</i> <b>56</b> (2011), 235                                         |
| Povondraite          | $\text{NaFe}^{3+}_3(\text{Fe}^{3+}_4\text{Mg}_2)(\text{Si}_6\text{O}_{18})(\text{BO}_3)_3(\text{OH})_3\text{O}$       | Rn | 1990 s.p. | Bolivia                          | <i>American Mineralogist</i> <b>64</b> (1979), 945                                                                                     | <i>Mineralogical Magazine</i> <b>87</b> (2023), 178                                         |
| Powellite            | $\text{Ca}(\text{MoO}_4)$                                                                                             | G  | 1891      | USA                              | <i>American Journal of Science</i> <b>41</b> (1891), 138                                                                               | <i>Acta Crystallographica</i> <b>E76</b> (2020), 121                                        |
| Poyarkovite          | $\text{Hg}_3\text{OCl}$                                                                                               | A  | 1980-099  | Kyrgyzstan                       | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>110</b> (1981), 501                                                      | <i>Canadian Mineralogist</i> <b>37</b> (1999), 119                                          |
| Prachařite           | $\text{CaSb}^{5+}_2(\text{As}^{3+}_2\text{O}_5)_2\text{O}_2(\text{H}_2\text{O})_7 \cdot 3\text{H}_2\text{O}$          | A  | 2018-081  | Greece                           | <i>Mineralogy and Petrology</i> <b>117</b> (2023), 269                                                                                 |                                                                                             |
| Pradetite            | $\text{CoCu}_4(\text{AsO}_4)_2(\text{AsO}_3\text{OH})_2(\text{H}_2\text{O})_8 \cdot \text{H}_2\text{O}$               | Rd | 1991-046  | France                           | <i>Archives des Sciences de Genève</i> <b>48</b> (1995), 239                                                                           | <i>Archives des Sciences de Genève</i> <b>60</b> (2007), 51                                 |
| Pratesiite           | $\text{AgCuTe}_2$                                                                                                     | A  | 2025-071  | USA                              | CNMNC Newsletter 89 - <i>Mineralogical Magazine</i> <b>90</b> (2026), 481; <i>European Journal of Mineralogy</i> <b>38</b> (2026), 117 | <a href="https://doi.org/10.1180/mgm.2026.10198">https://doi.org/10.1180/mgm.2026.10198</a> |
| Prehnite             | $\text{Ca}_2\text{Al}(\text{Si}_3\text{Al})\text{O}_{10}(\text{OH})_2$                                                | G  | 1788      | South Africa                     | <i>Schriften der Gesellschaft Naturforschender Freunde zu Berlin</i> <b>8</b> (1788), 211                                              | <i>Mineralogy and Petrology</i> <b>112</b> (2018), 173                                      |
| Preisingerite        | $\text{Bi}_3\text{O}(\text{AsO}_4)_2(\text{OH})$                                                                      | A  | 1981-016  | Argentina                        | <i>American Mineralogist</i> <b>67</b> (1982), 833                                                                                     |                                                                                             |
| Preiswerkite         | $\text{NaAlMg}_2(\text{Si}_2\text{Al}_2)\text{O}_{10}(\text{OH})_2$                                                   | A  | 1979-008  | Switzerland                      | <i>American Mineralogist</i> <b>65</b> (1980), 1134                                                                                    | <i>American Mineralogist</i> <b>78</b> (1993), 1290                                         |
| Preobrazhenskite     | $\text{Mg}_3\text{B}_{11}\text{O}_{15}(\text{OH})_9$                                                                  | G  | 1956      | Kazakhstan                       | <i>Doklady Akademii Nauk SSSR</i> <b>111</b> (1956), 1087                                                                              | <i>Canadian Mineralogist</i> <b>32</b> (1994), 387                                          |
| Pretulite            | $\text{Sc}(\text{PO}_4)$                                                                                              | A  | 1996-024  | Austria                          | <i>American Mineralogist</i> <b>83</b> (1998), 625                                                                                     | <i>Canadian Mineralogist</i> <b>40</b> (2002), 1657                                         |
| Prewittite           | $\text{KPb}_{1.5}\text{ZnCu}_6\text{O}_2(\text{SeO}_3)_2\text{Cl}_{10}$                                               | A  | 2002-041  | Russia                           | <i>American Mineralogist</i> <b>98</b> (2013), 463                                                                                     |                                                                                             |
| Příbramite           | $\text{CuSbSe}_2$                                                                                                     | A  | 2015-127  | Czech Republic                   | <i>European Journal of Mineralogy</i> <b>29</b> (2017), 653                                                                            |                                                                                             |
| Priceite             | $\text{Ca}_2\text{B}_5\text{O}_7(\text{OH})_5(\text{H}_2\text{O})$                                                    | G  | 1873      | USA                              | <i>American Journal of Science</i> <b>6</b> (1873), 126                                                                                | <i>Canadian Mineralogist</i> <b>49</b> (2011), 823                                          |
| Priderite            | $\text{K}(\text{Ti}_7\text{Fe}^{3+})\text{O}_{16}$                                                                    | G  | 1951      | Australia                        | <i>Mineralogical Magazine</i> <b>29</b> (1951), 496                                                                                    | <i>Acta Crystallographica</i> <b>B38</b> (1982), 1056                                       |
| Princivalleite       | $\text{Na}(\text{Mn}_2\text{Al})\text{Al}_6(\text{Si}_6\text{O}_{18})(\text{BO}_3)_3(\text{OH})_3\text{O}$            | A  | 2020-056  | Italy                            | <i>Mineralogical Magazine</i> <b>86</b> (2022), 78                                                                                     | <i>Physics and Chemistry of Minerals</i> <b>50</b> (2023), 27                               |
| Pringleite           | $\text{Ca}_9\text{B}_{26}\text{O}_{34}(\text{OH})_{24}\text{Cl}_4(\text{H}_2\text{O})_{10} \cdot 3\text{H}_2\text{O}$ | A  | 1992-010  | Canada                           | <i>Canadian Mineralogist</i> <b>31</b> (1993), 795                                                                                     | <i>Canadian Mineralogist</i> <b>32</b> (1994), 1                                            |
| Priscillagrewite-(Y) | $(\text{YCa}_2)\text{Zr}_2(\text{AlO}_4)_3$                                                                           | A  | 2020-002  | Jordan                           | <i>American Mineralogist</i> <b>106</b> (2021), 641                                                                                    |                                                                                             |
| Prismatine           | $(\text{Mg,Al,Fe})_6\text{Al}_4(\text{Si,Al})_4(\text{B,Si,Al})(\text{O,OH,F})_{22}$                                  | Rd | 1996 s.p. | Germany                          | <i>Zeitschrift der Deutschen Geologischen Gesellschaft</i> <b>38</b> (1886), 704                                                       | <i>Canadian Mineralogist</i> <b>47</b> (2009), 233                                          |
| Probertite           | $\text{NaCaB}_5\text{O}_7(\text{OH})_4(\text{H}_2\text{O})_3$                                                         | G  | 1929      | USA                              | <i>American Mineralogist</i> <b>14</b> (1929), 427                                                                                     | <i>American Mineralogist</i> <b>107</b> (2022), 1378                                        |
| Proshchenkoite-(Y)   | $(\text{Y,REE,Ca,Na,Mn})_{15}\text{Fe}^{2+}\text{Ca}(\text{P,Si})\text{Si}_6\text{B}_3(\text{O,F})_{48}$              | A  | 2008-007  | Russia                           | <i>Mineralogical Magazine</i> <b>72</b> (2008), 1071                                                                                   |                                                                                             |
| Prosopite            | $\text{CaAl}_2\text{F}_4(\text{OH})_4$                                                                                | G  | 1853      | Germany                          | <i>Annalen der Physik und Chemie</i> <b>90</b> (1853), 315                                                                             | <i>Journal of Mineralogical and Petrological Sciences</i> <b>113</b> (2018), 152            |
| Prosperite           | $\text{Ca}_2\text{Zn}_4(\text{AsO}_4)_4(\text{H}_2\text{O})$                                                          | A  | 1978-028  | Namibia                          | <i>Canadian Mineralogist</i> <b>17</b> (1979), 87                                                                                      | <i>Zeitschrift für Kristallographie</i> <b>158</b> (1982), 33                               |
| Protasite            | $\text{Ba}(\text{UO}_2)_3\text{O}_3(\text{OH})_2(\text{H}_2\text{O})_3$                                               | A  | 1984-001  | Democratic Republic of the Congo | <i>Mineralogical Magazine</i> <b>50</b> (1986), 125                                                                                    | <i>American Mineralogist</i> <b>72</b> (1987), 1230                                         |

|                                     |                                                                                                                               |    |           |                    |                                                                                                                                        |                                                                                    |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|----|-----------|--------------------|----------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| Proto-anthophyllite                 | $\square\text{Mg}_2\text{Mg}_5\text{Si}_8\text{O}_{22}(\text{OH})_2$                                                          | Rd | 2012 s.p. | Japan              | <i>American Mineralogist</i> <b>88</b> (2003), 1718                                                                                    |                                                                                    |
| Protocaseyite                       | $[\text{Al}_4(\text{OH})_6(\text{H}_2\text{O})_{12}][\text{V}_{10}\text{O}_{28}]\cdot 8\text{H}_2\text{O}$                    | A  | 2020-090  | USA                | <i>American Mineralogist</i> <b>107</b> (2022), 1181                                                                                   |                                                                                    |
| Protochabournéite                   | $\text{Ti}_{4-x}\text{Pb}_{2+2x}\text{Sb}_{20-x-y}\text{As}_y\text{S}_{34}$<br>$0.02 \leq x \leq 0.34, 5.71 \leq y \leq 6.69$ | Rd | 2021 s.p. | Italy              | <i>Canadian Mineralogist</i> <b>51</b> (2013), 475                                                                                     |                                                                                    |
| Protoenstatite                      | $\text{Mg}_2\text{Si}_2\text{O}_6$                                                                                            | A  | 2016-117  | USA                | <i>American Mineralogist</i> <b>102</b> (2017), 2146                                                                                   | <i>Physics and Chemistry of Minerals</i> <b>51</b> (2024), 32                      |
| Proto-ferro-anthophyllite           | $\square\text{Fe}^{2+}_2\text{Fe}^{2+}_5\text{Si}_8\text{O}_{22}(\text{OH})_2$                                                | Rd | 2012 s.p. | USA                | <i>Physics and Chemistry of Minerals</i> <b>25</b> (1998), 366                                                                         | <i>Journal of Mineralogical and Petrological Sciences</i> <b>97</b> (2002), 127    |
| Proto-ferro-suenoite                | $\square\text{Mn}^{2+}_2\text{Fe}^{2+}_5\text{Si}_8\text{O}_{22}(\text{OH})_2$                                                | Rd | 2012 s.p. | Japan              | <i>Physics and Chemistry of Minerals</i> <b>25</b> (1998), 366                                                                         | <i>Journal of Mineralogical and Petrological Sciences</i> <b>97</b> (2002), 127    |
| Proto-owyheeite                     | $\text{Ag}_9\text{Pb}_{40}\text{Sb}_{45}\text{S}_{112}$                                                                       | A  | 2024-021  | Italy              | CNMNC Newsletter 81 - <i>Mineralogical Magazine</i> <b>88</b> (2024), 632; <i>European Journal of Mineralogy</i> <b>36</b> (2024), 917 |                                                                                    |
| Proudite                            | $\text{Cu}_2\text{Pb}_{16}\text{Bi}_{20}(\text{S},\text{Se})_{47}$                                                            | A  | 1975-028  | Australia          | <i>American Mineralogist</i> <b>61</b> (1976), 839                                                                                     | <i>Canadian Mineralogist</i> <b>47</b> (2009), 25                                  |
| Proustite                           | $\text{Ag}_3\text{AsS}_3$                                                                                                     | G  | 1832      | unknown            | Traité Élémentaire de Minéralogie, 2nd ed. Verdière, Paris (1832), 445                                                                 | <i>Inorganic Chemistry Communications</i> <b>46</b> (2014), 17                     |
| Proxidecagonite                     | $\text{Al}_{34}\text{Ni}_9\text{Fe}_2$                                                                                        | A  | 2018-038  | Russia (meteorite) | <i>Scientific Reports</i> <b>8</b> (2018), 16271                                                                                       |                                                                                    |
| Proxitwelvefoldite                  | $\text{Pd}_3\text{Ni}_4\text{Te}_8$                                                                                           | A  | 2024-034  | Australia          | CNMNC Newsletter 81 - <i>Mineralogical Magazine</i> <b>88</b> (2024), 632; <i>European Journal of Mineralogy</i> <b>36</b> (2024), 917 |                                                                                    |
| Przhevalskite                       | $\text{Pb}(\text{UO}_2)_2(\text{PO}_4)_2\cdot 4\text{H}_2\text{O}$                                                            | Q  | 1946      | Tajikistan         | original paper?                                                                                                                        |                                                                                    |
| Pseudoboleite                       | $\text{Pb}_{31}\text{Cu}_{24}\text{Cl}_{62}(\text{OH})_{48}$                                                                  | Rn | 2007 s.p. | Mexico             | <i>Bulletin du Muséum d'Histoire Naturelle</i> <b>1</b> (1895), 39                                                                     | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1992), 113                      |
| Pseudobrookite                      | $\text{Fe}^{3+}_2\text{TiO}_5$                                                                                                | Rd | 1988 s.p. | Romania            | <i>Mineralogische und Petrographische Mittheilungen</i> <b>1</b> (1878), 77                                                            | <i>Zapiski Rossiyskogo Mineralogicheskogo Obshchestva</i> <b>152(2)</b> (2023), 31 |
| Pseudocotunnite                     | $\text{K}_2\text{PbCl}_4$ (?)                                                                                                 | Q  | 1873      | Italy              | <i>Rendiconti della Reale Accademia delle Scienze Fisiche e Matematiche di Napoli, Ser. I</i> <b>6</b> (1873), 1                       | <i>Rendiconti della Società Mineralogica Italiana</i> <b>8</b> (1952), 58          |
| Pseudodickthomssenite               | $\text{Mg}(\text{VO}_3)_2(\text{H}_2\text{O})_5\cdot 3\text{H}_2\text{O}$                                                     | A  | 2021-027  | USA                | <i>Canadian Mineralogist</i> <b>60</b> (2022), 797                                                                                     |                                                                                    |
| Pseudograndreefite                  | $\text{Pb}_6(\text{SO}_4)\text{F}_{10}$                                                                                       | A  | 1988-017  | USA                | <i>American Mineralogist</i> <b>74</b> (1989), 927                                                                                     |                                                                                    |
| Pseudojohannite                     | $\text{Cu}_3(\text{OH})_2[(\text{UO}_2)_4\text{O}_4(\text{SO}_4)_2](\text{H}_2\text{O})_{10}\cdot 2\text{H}_2\text{O}$        | A  | 2000-019  | Czech Republic     | <i>American Mineralogist</i> <b>91</b> (2006), 929                                                                                     | <i>Crystals</i> <b>12</b> (2022), 1503                                             |
| Pseudolaueite                       | $\text{Mn}^{2+}\text{Fe}^{3+}_2(\text{PO}_4)_2(\text{OH})_2(\text{H}_2\text{O})_6\cdot 2\text{H}_2\text{O}$                   | G  | 1956      | Germany            | <i>Naturwissenschaften</i> <b>43</b> (1956), 128                                                                                       | <i>American Mineralogist</i> <b>54</b> (1969), 1312                                |
| Pseudolyonsite                      | $\text{Cu}_3(\text{VO}_4)_2$                                                                                                  | A  | 2009-062  | Russia             | <i>European Journal of Mineralogy</i> <b>23</b> (2011), 475                                                                            |                                                                                    |
| Pseudomalachite                     | $\text{Cu}_5(\text{PO}_4)_2(\text{OH})_4$                                                                                     | G  | 1813      | Germany            | Handbuch der Mineralogie, Vol. 3. Vandenhoek und Ruprecht, Göttingen (1813), 1036                                                      | <i>Structural Chemistry</i> <b>27</b> (2016), 1715                                 |
| Pseudomarkeyite                     | $\text{Ca}_8(\text{UO}_2)_4(\text{CO}_3)_{12}(\text{H}_2\text{O})_{18}\cdot 3\text{H}_2\text{O}$                              | A  | 2018-114  | USA                | <i>Mineralogical Magazine</i> <b>84</b> (2020), 753                                                                                    |                                                                                    |
| Pseudomeisserite-(NH <sub>4</sub> ) | $(\text{NH}_4)_2\text{Na}_4[(\text{UO}_2)_2(\text{SO}_4)_5](\text{H}_2\text{O})_4$                                            | A  | 2018-166  | USA                | <i>Mineralogical Magazine</i> <b>84</b> (2020), 435                                                                                    |                                                                                    |
| Pseudomertieite                     | $\text{Pd}_{5+x}(\text{Sb},\text{As})_{2-x}$ ( $x = 0.1-0.2$ )                                                                | Rn | 1971-016  | USA                | <i>American Mineralogist</i> <b>58</b> (1973), 1                                                                                       | <i>Canadian Mineralogist</i> <b>13</b> (1975), 321                                 |
| Pseudopomite                        | $\text{Ca}_{3.5}[\text{V}^{4+}_6\text{V}^{5+}_9\text{O}_{37}(\text{CO}_3)]\cdot 32\text{H}_2\text{O}$                         | A  | 2021-064  | USA                | <i>American Mineralogist</i> <b>107</b> (2022), 2143                                                                                   |                                                                                    |
| Pseudorutile                        | $\text{Fe}^{3+}_2\text{Ti}^{4+}_3\text{O}_9$                                                                                  | Rd | 1994 s.p. | Australia          | <i>Nature</i> <b>211</b> (1966), 179                                                                                                   | <i>American Mineralogist</i> <b>95</b> (2010), 161                                 |
| Pseudosinhalite                     | $\text{Mg}_2\text{Al}_3\text{B}_2\text{O}_9(\text{OH})$                                                                       | A  | 1997-014  | Russia             | <i>Contributions to Mineralogy and Petrology</i> <b>133</b> (1998), 382                                                                | <i>Contributions to Mineralogy and Petrology</i> <b>128</b> (1997), 261            |
| Pseudowollastonite                  | $\text{CaSiO}_3$                                                                                                              | A  | 1962 s.p. | Iran               | <i>Mineralogical Magazine</i> <b>23</b> (1932), 207                                                                                    | <i>Lithos</i> <b>134-135</b> (2012), 75                                            |

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|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----------|----------------|--------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| Pucherite                       | Bi(VO <sub>4</sub> )                                                                                                                                                                                                   | G  | 1871      | Germany        | <i>Journal für Praktische Chemie</i> <b>117</b> (1871), 227                                | <i>Zeitschrift für Kristallographie</i> <b>169</b> (1984), 289                     |
| Pumpellyite-(Al)                | Ca <sub>2</sub> Al <sub>3</sub> (Si <sub>2</sub> O <sub>7</sub> )(SiO <sub>4</sub> )(OH,O) <sub>2</sub> (H <sub>2</sub> O)                                                                                             | A  | 2005-016  | Belgium        | <i>European Journal of Mineralogy</i> <b>19</b> (2007), 247                                | <i>European Journal of Mineralogy</i> <b>22</b> (2010), 333                        |
| Pumpellyite-(Fe <sup>2+</sup> ) | Ca <sub>2</sub> (Fe <sup>2+</sup> Al <sub>2</sub> )(Si <sub>2</sub> O <sub>7</sub> )(SiO <sub>4</sub> )(OH,O) <sub>2</sub> (H <sub>2</sub> O)                                                                          | Rn | 1973 s.p. | Russia         | <i>Doklady Akademii Nauk SSSR</i> <b>165</b> (1965), 136                                   |                                                                                    |
| Pumpellyite-(Fe <sup>3+</sup> ) | Ca <sub>2</sub> (Fe <sup>3+</sup> Al <sub>2</sub> )(Si <sub>2</sub> O <sub>7</sub> )(SiO <sub>4</sub> )(OH,O) <sub>2</sub> (H <sub>2</sub> O)                                                                          | Rn | 1973 s.p. | Italy          | <i>Periodico di Mineralogia</i> <b>41</b> (1972), 273                                      |                                                                                    |
| Pumpellyite-(Mg)                | Ca <sub>2</sub> (MgAl <sub>2</sub> )(Si <sub>2</sub> O <sub>7</sub> )(SiO <sub>4</sub> )(OH) <sub>2</sub> (H <sub>2</sub> O)                                                                                           | Rn | 1973 s.p. | USA            | <i>American Mineralogist</i> <b>10</b> (1925), 412                                         | <i>European Journal of Mineralogy</i> <b>30</b> (2018), 1133                       |
| Pumpellyite-(Mn <sup>2+</sup> ) | Ca <sub>2</sub> (Mn <sup>2+</sup> Al <sub>2</sub> )(Si <sub>2</sub> O <sub>7</sub> )(SiO <sub>4</sub> )(OH) <sub>2</sub> (H <sub>2</sub> O)                                                                            | Rn | 1980-006  | Japan          | <i>Bulletin de Minéralogie</i> <b>104</b> (1981), 396                                      | <i>American Mineralogist</i> <b>81</b> (1996), 603                                 |
| Puninite                        | Na <sub>2</sub> Cu <sub>3</sub> O(SO <sub>4</sub> ) <sub>3</sub>                                                                                                                                                       | A  | 2015-012  | Russia         | <i>European Journal of Mineralogy</i> <b>29</b> (2017), 499                                | <i>Physical Review B</i> <b>102</b> (2020), 184405                                 |
| Punkaruavite                    | LiTi <sub>2</sub> [Si <sub>4</sub> O <sub>11</sub> (OH)](OH) <sub>2</sub> ·H <sub>2</sub> O                                                                                                                            | A  | 2008-018  | Russia         | <i>Canadian Mineralogist</i> <b>48</b> (2010), 41                                          |                                                                                    |
| Purpurite                       | Mn <sup>3+</sup> (PO <sub>4</sub> )                                                                                                                                                                                    | G  | 1905      | USA            | <i>American Journal of Science</i> <b>20</b> (1905), 146                                   | <i>Geologiska Föreningens i Stockholm Förhandlingar</i> <b>60</b> (1938), 67       |
| Puschridgeite                   | Mn(C <sub>2</sub> H <sub>3</sub> O <sub>3</sub> ) <sub>2</sub> (H <sub>2</sub> O) <sub>2</sub>                                                                                                                         | A  | 2025-030  | USA            | <i>Canadian Journal of Mineralogy and Petrology</i> <b>64</b> (2026), 275                  |                                                                                    |
| Pushcharovskite                 | K <sub>0.6</sub> Cu <sub>18</sub> [AsO <sub>2</sub> (OH) <sub>2</sub> ] <sub>4</sub> [AsO <sub>3</sub> (OH)] <sub>10</sub> (AsO <sub>4</sub> )(OH) <sub>9.6</sub> (H <sub>2</sub> O) <sub>9.6</sub> ·9H <sub>2</sub> O | A  | 1995-048  | France         | <i>Archives des Sciences de Genève</i> <b>50</b> (1997), 177                               | <i>European Journal of Mineralogy</i> <b>32</b> (2020), 285                        |
| Putnisite                       | SrCa <sub>4</sub> Cr <sup>3+</sup> <sub>8</sub> (CO <sub>3</sub> ) <sub>8</sub> (SO <sub>4</sub> )(OH) <sub>16</sub> (H <sub>2</sub> O) <sub>18</sub> ·7H <sub>2</sub> O                                               | A  | 2011-106  | Australia      | <i>Mineralogical Magazine</i> <b>78</b> (2014), 131                                        |                                                                                    |
| Putoranite                      | Cu <sub>1.1</sub> Fe <sub>1.2</sub> S <sub>2</sub>                                                                                                                                                                     | A  | 1979-054  | Russia         | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>109</b> (1980), 335          |                                                                                    |
| Puttapaite                      | Pb <sub>2</sub> Mn <sup>2+</sup> <sub>2</sub> ZnCr <sup>3+</sup> <sub>4</sub> O <sub>2</sub> (AsO <sub>4</sub> ) <sub>4</sub> (OH) <sub>6</sub> (H <sub>2</sub> O) <sub>12</sub>                                       | A  | 2020-025  | Australia      | <i>Mineralogical Magazine</i> <b>89</b> (2025), 155                                        |                                                                                    |
| Putzite                         | Cu <sub>8</sub> GeS <sub>6</sub>                                                                                                                                                                                       | A  | 2002-024  | Argentina      | <i>Canadian Mineralogist</i> <b>42</b> (2004), 1757                                        |                                                                                    |
| Pyatenkoite-(Y)                 | Na <sub>5</sub> YTiSi <sub>6</sub> O <sub>18</sub> (H <sub>2</sub> O) <sub>6</sub>                                                                                                                                     | A  | 1995-034  | Russia         | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>125(4)</b> (1996), 72      | <i>Doklady Chemistry</i> <b>351</b> (1996), 283                                    |
| Pyracmonite                     | (NH <sub>4</sub> ) <sub>3</sub> Fe(SO <sub>4</sub> ) <sub>3</sub>                                                                                                                                                      | A  | 2008-029  | Italy          | <i>Canadian Mineralogist</i> <b>48</b> (2010), 307                                         |                                                                                    |
| Pyradoketosite                  | Ag <sub>3</sub> SbS <sub>3</sub>                                                                                                                                                                                       | A  | 2019-132  | Italy          | <i>American Mineralogist</i> <b>107</b> (2022), 1901                                       |                                                                                    |
| Pyrrargyrite                    | Ag <sub>3</sub> SbS <sub>3</sub>                                                                                                                                                                                       | G  | 1831      | unknown        | Handbuch der Mineralogie. Schrag, Nürnberg (1831), 388                                     | <i>Journal of Geosciences</i> <b>55</b> (2010), 161                                |
| Pyrite                          | FeS <sub>2</sub>                                                                                                                                                                                                       | G  | ?         | unknown        | original paper?                                                                            | <i>American Mineralogist</i> <b>62</b> (1977), 1168                                |
| Pyroaurite                      | Mg <sub>6</sub> Fe <sup>3+</sup> <sub>2</sub> (OH) <sub>16</sub> (CO <sub>3</sub> )·4H <sub>2</sub> O                                                                                                                  | Rd | 1865      | Sweden         | <i>Öfversigt af Kongliga Vetenskaps-Akademiens Förhandlingar</i> (1865), 605               | <i>Zapiski Rossiyskogo Mineralogicheskogo Obshchestva</i> <b>145(3)</b> (2016), 81 |
| Pyrobelonite                    | PbMn <sup>2+</sup> VO <sub>4</sub> (OH)                                                                                                                                                                                | G  | 1919      | Sweden         | <i>Geologiska Föreningens i Stockholm Förhandlingar</i> <b>41</b> (1919), 433              | <i>Acta Crystallographica</i> <b>E57</b> (2001), i119                              |
| Pyrochroite                     | Mn <sup>2+</sup> (OH) <sub>2</sub>                                                                                                                                                                                     | G  | 1864      | Sweden         | <i>Annalen der Physik und Chemie</i> <b>122</b> (1864), 181                                | <i>Physics and Chemistry of Minerals</i> <b>25</b> (1998), 130                     |
| Pyrolusite                      | MnO <sub>2</sub>                                                                                                                                                                                                       | A  | 1982 s.p. | Czech Republic | <i>Edinburgh Journal of Science</i> <b>9</b> (1827), 304                                   | <i>Physics and Chemistry of Minerals</i> <b>46</b> (2019), 987                     |
| Pyromorphite                    | Pb <sub>5</sub> (PO <sub>4</sub> ) <sub>3</sub> Cl                                                                                                                                                                     | G  | 1813      | Germany        | Handbuch der Mineralogie, Vol. 3. Vandenhoek und Ruprecht, Göttingen (1813), 1090          | <i>American Mineralogist</i> <b>108</b> (2023), 2323                               |
| Pyrope                          | Mg <sub>3</sub> Al <sub>2</sub> (SiO <sub>4</sub> ) <sub>3</sub>                                                                                                                                                       | G  | 1803      | Czech Republic | Handbuch der Mineralogie nach A. G. Werner. Siegfried Lebrécht Crusius, Leipzig (1803), 62 | <i>American Mineralogist</i> <b>56</b> (1971), 791                                 |

|                   |                                                                                                                                                 |    |           |                     |                                                                                                                                        |                                                                                  |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|----|-----------|---------------------|----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
| Pyrophanite       | $\text{Mn}^{2+}\text{TiO}_3$                                                                                                                    | G  | 1890      | Sweden              | <i>Geologiska Föreningens i Stockholm Förhandlingar</i> <b>12</b> (1890), 567                                                          | <i>Canadian Mineralogist</i> <b>44</b> (2006), 1099                              |
| Pyrophyllite      | $\text{Al}_2\text{Si}_4\text{O}_{10}(\text{OH})_2$                                                                                              | G  | 1829      | Russia              | <i>Annalen der Physik und Chemie</i> <b>15</b> (1829), 592                                                                             | <i>American Mineralogist</i> <b>66</b> (1981), 350                               |
| Pyrosmalite-(Fe)  | $\text{Fe}^{2+}_8\text{Si}_6\text{O}_{15}(\text{OH})_{10}$                                                                                      | Rn | 1987 s.p. | Sweden              | <i>Mineralogical Magazine</i> <b>51</b> (1987), 174                                                                                    | <i>Acta Crystallographica</i> <b>E68</b> (2012), i7                              |
| Pyrosmalite-(Mn)  | $\text{Mn}^{2+}_8\text{Si}_6\text{O}_{15}(\text{OH},\text{Cl})_{10}$                                                                            | Rn | 2007 s.p. | USA                 | <i>American Mineralogist</i> <b>38</b> (1953), 755                                                                                     | <i>Canadian Mineralogist</i> <b>21</b> (1983), 1                                 |
| Pyrostilpnite     | $\text{Ag}_3\text{SbS}_3$                                                                                                                       | G  | 1868      | Germany             | A System of Mineralogy, 5th ed. Wiley, New York (1868), 93                                                                             | <i>Mineralogical Magazine</i> <b>84</b> (2020), 463                              |
| Pyroxferroite     | $\text{Fe}^{2+}\text{SiO}_3$                                                                                                                    | A  | 1970-001  | The Moon            | <i>Geochimica et Cosmochimica Acta, Suppl. - Proceedings of the Apollo XI Lunar Science Conference</i> <b>1</b> (1970), 65             | <i>Crystallography Reports</i> <b>61</b> (2016), 931                             |
| Pyroxmangite      | $\text{Mn}^{2+}\text{SiO}_3$                                                                                                                    | G  | 1913      | USA                 | <i>American Journal of Science</i> <b>36</b> (1913), 169                                                                               | <i>Mineralogy and Petrology</i> <b>115</b> (2021), 631                           |
| Pyrrhotite        | $\text{Fe}_7\text{S}_8$                                                                                                                         | G  | 1835      | Japan               | <i>Journal für Praktische Chemie</i> <b>4</b> (1835), 249                                                                              | <i>American Mineralogist</i> <b>106</b> (2021), 82                               |
| Qandilite         | $\text{TiMg}_2\text{O}_4$                                                                                                                       | A  | 1980-046  | Iraq                | <i>Mineralogical Magazine</i> <b>49</b> (1985), 739                                                                                    | <i>American Mineralogist</i> <b>99</b> (2014), 847                               |
| Qaqarssukite-(Ce) | $\text{BaCe}(\text{CO}_3)_2\text{F}$                                                                                                            | A  | 2004-019  | Denmark (Greenland) | <i>Canadian Mineralogist</i> <b>44</b> (2006), 1137                                                                                    |                                                                                  |
| Qatranaite        | $\text{CaZn}_2(\text{OH})_6(\text{H}_2\text{O})_2$                                                                                              | A  | 2016-024  | Jordan              | <i>European Journal of Mineralogy</i> <b>31</b> (2019), 575                                                                            |                                                                                  |
| Qeltite           | $\text{Ca}_3\text{TiSi}_2(\text{Fe}^{3+}_2\text{Si})\text{O}_{14}$                                                                              | A  | 2021-032  | Palestine           | <i>Mineralogical Magazine</i> <b>88</b> (2024), 335                                                                                    |                                                                                  |
| Qilianshanite     | $\text{NaH}_4(\text{CO}_3)(\text{BO}_3)(\text{H}_2\text{O})_2$                                                                                  | A  | 1992-008  | China               | <i>Acta Mineralogica Sinica</i> <b>13</b> (1993), 97                                                                                   | <i>Geological Review</i> <b>40</b> (1994), 347                                   |
| Qingheite         | $\text{NaNaMn}(\text{MgAl})(\text{PO}_4)_3$                                                                                                     | A  | 1981-051  | China               | <i>Acta Mineralogica Sinica</i> <b>3</b> (1983), 161                                                                                   | <i>Canadian Mineralogist</i> <b>54</b> (2016), 1087                              |
| Qingsongite       | BN                                                                                                                                              | A  | 2013-030  | China               | <i>American Mineralogist</i> <b>99</b> (2014), 764                                                                                     |                                                                                  |
| Qitianlingite     | $\text{Fe}^{2+}_2\text{Nb}_2\text{W}^{6+}\text{O}_{10}$                                                                                         | Q  | 1983-075  | China               | <i>Acta Mineralogica Sinica</i> <b>5</b> (1985), 193                                                                                   | <i>Kexue Tongbao</i> <b>33</b> (1988), 856                                       |
| Qiumingite        | $\text{Pb}_3(\text{Zn}_2\text{Fe}^{3+})\text{Sb}^{5+}\text{P}_2\text{O}_{14}$                                                                   | A  | 2025-008  | China               | CNMNC Newsletter 86 - <i>Mineralogical Magazine</i> <b>89</b> (2025), 544; <i>European Journal of Mineralogy</i> <b>37</b> (2025), 549 |                                                                                  |
| Quadratite        | $\text{AgCdAsS}_3$                                                                                                                              | A  | 1994-038  | Switzerland         | <i>Schweizerische Mineralogische und Petrographische Mitteilungen</i> <b>78</b> (1998), 489                                            | <i>American Mineralogist</i> <b>98</b> (2013), 236                               |
| Quadridavyne      | $[(\text{Na},\text{K})_6\text{Cl}_2][\text{Ca}_2\text{Cl}_2][(\text{Si}_6\text{Al}_6\text{O}_{24})]$                                            | A  | 1990-054  | Italy               | <i>European Journal of Mineralogy</i> <b>6</b> (1994), 481                                                                             |                                                                                  |
| Quadruphite       | $\text{Na}_6\text{Na}_2(\text{CaNa})_2\text{Na}_2\text{Ti}_2\text{Na}_2\text{Ti}_2(\text{Si}_2\text{O}_7)_2(\text{PO}_4)_4\text{O}_4\text{F}_2$ | Rd | 1990-026  | Russia              | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>121(1)</b> (1992), 105                                                 | <i>Canadian Mineralogist</i> <b>39</b> (2001), 1275                              |
| Quartz            | $\text{SiO}_2$                                                                                                                                  | A  | 1967 s.p. | unknown             | original paper?                                                                                                                        | <i>European Journal of Mineralogy</i> <b>2</b> (1990), 63                        |
| Quatrandorite     | $\text{AgPbSb}_3\text{S}_6$                                                                                                                     | Rn | 2022 s.p. | Bolivia             | <i>Zeitschrift für Kristallographie</i> <b>21</b> (1893), 193                                                                          | <i>Journal of Mineralogical and Petrological Sciences</i> <b>107</b> (2012), 226 |
| Queitite          | $\text{Zn}_2\text{Pb}_4(\text{Si}_2\text{O}_7)(\text{SiO}_4)(\text{SO}_4)$                                                                      | A  | 1978-029  | Namibia             | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1979), 203                                                                          | <i>Zeitschrift für Kristallographie</i> <b>151</b> (1980), 287                   |
| Quenselite        | $\text{PbMn}^{3+}\text{O}_2(\text{OH})$                                                                                                         | G  | 1925      | Sweden              | <i>Geologiska Föreningens i Stockholm Förhandlingar</i> <b>47</b> (1925), 377                                                          | <i>Zeitschrift für Kristallographie</i> <b>134</b> (1971), 321                   |
| Quenstedtite      | $\text{Fe}^{3+}_2(\text{SO}_4)_3(\text{H}_2\text{O})_9 \cdot 2\text{H}_2\text{O}$                                                               | G  | 1889      | Chile               | <i>Zeitschrift für Kristallographie, Mineralogie und Petrographie</i> <b>15</b> (1889), 11                                             | <i>American Mineralogist</i> <b>59</b> (1974), 582                               |
| Quetzalcoatlite   | $\text{Cu}^{2+}_3\text{Zn}_6\text{Te}^{6+}_2\text{O}_{12}(\text{OH})_6 \cdot (\text{Ag},\text{Pb},\square)\text{Cl}$                            | A  | 1973-010  | Mexico              | <i>Mineralogical Magazine</i> <b>39</b> (1973), 261                                                                                    | <i>American Mineralogist</i> <b>85</b> (2000), 604                               |
| Quijarroite       | $\text{Cu}_6\text{HgPb}_2\text{Bi}_4\text{Se}_{12}$                                                                                             | A  | 2016-052  | Bolivia             | <i>Minerals</i> <b>6</b> (2016), 123                                                                                                   |                                                                                  |

|                    |                                                                                                                                                             |    |          |                 |                                                                                                                                          |                                                                         |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----------|-----------------|------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|
| Quintinite         | $\text{Mg}_4\text{Al}_2(\text{OH})_{12}(\text{CO}_3) \cdot 3\text{H}_2\text{O}$                                                                             | A  | 1992-028 | Canada          | <i>Canadian Mineralogist</i> <b>35</b> (1997), 1541                                                                                      | <i>Mineralogical Magazine</i> <b>82</b> (2018), 329                     |
| Qusongite          | WC                                                                                                                                                          | A  | 2007-034 | China           | <i>American Mineralogist</i> <b>94</b> (2009), 387                                                                                       | <i>Solid State Sciences</i> <b>10</b> (2008), 1499                      |
| Raadeite           | $\text{Mg}_7(\text{PO}_4)_2(\text{OH})_8$                                                                                                                   | A  | 1996-034 | Norway          | <i>European Journal of Mineralogy</i> <b>13</b> (2001), 319                                                                              |                                                                         |
| Rabbittite         | $\text{Ca}_3\text{Mg}_3(\text{UO}_2)_2(\text{CO}_3)_6(\text{OH})_4 \cdot 18\text{H}_2\text{O}$                                                              | G  | 1955     | USA             | <i>American Mineralogist</i> <b>40</b> (1955), 201                                                                                       |                                                                         |
| Rabejacite         | $\text{Ca}_2[(\text{UO}_2)_4\text{O}_4(\text{SO}_4)_2](\text{H}_2\text{O})_8$                                                                               | A  | 1992-043 | France          | <i>European Journal of Mineralogy</i> <b>5</b> (1993), 873                                                                               | <i>Mineralogical Magazine</i> <b>78</b> (2014), 1249                    |
| Raberite           | $\text{Ti}_5\text{Ag}_4\text{As}_6\text{SbS}_{15}$                                                                                                          | A  | 2012-017 | Switzerland     | <i>Mineralogical Magazine</i> <b>76</b> (2012), 1153                                                                                     |                                                                         |
| Radekškodaite-(Ce) | $(\text{CaCe}_5)(\text{Al}_4\text{Fe}^{2+})[\text{Si}_2\text{O}_7][\text{SiO}_4]_5\text{O}(\text{OH})_3$                                                    | A  | 2019-042 | Russia          | <i>Mineralogical Magazine</i> <b>84</b> (2020), 839                                                                                      |                                                                         |
| Radekškodaite-(La) | $(\text{CaLa}_5)(\text{Al}_4\text{Fe}^{2+})[\text{Si}_2\text{O}_7][\text{SiO}_4]_5\text{O}(\text{OH})_3$                                                    | A  | 2018-107 | Russia          | <i>Mineralogical Magazine</i> <b>84</b> (2020), 839                                                                                      |                                                                         |
| Radhakrishnaite    | $\text{PbTe}_3(\text{Cl}, \text{S})_2$                                                                                                                      | A  | 1983-082 | India           | <i>Canadian Mineralogist</i> <b>23</b> (1985), 501                                                                                       |                                                                         |
| Radovanite         | $\text{Cu}_2\text{Fe}^{3+}[\text{As}^{5+}\text{O}_4][\text{As}^{3+}\text{O}_2(\text{OH})]_2 \cdot \text{H}_2\text{O}$                                       | A  | 2000-001 | France          | <i>Archives des Sciences de Genève</i> <b>55</b> (2002), 47                                                                              |                                                                         |
| Radtkeite          | $\text{Hg}_3\text{S}_2\text{ClI}$                                                                                                                           | A  | 1989-030 | USA             | <i>American Mineralogist</i> <b>76</b> (1991), 1715                                                                                      | <i>Canadian Mineralogist</i> <b>42</b> (2004), 87                       |
| Radvaniceite       | $\text{GeS}_2$                                                                                                                                              | A  | 2021-052 | Czech Republic  | <i>Minerals</i> <b>12</b> (2022), 222                                                                                                    |                                                                         |
| Raguinite          | $\text{TiFeS}_2$                                                                                                                                            | A  | 1968-022 | North Macedonia | <i>Bulletin de la Société Française de Minéralogie et de Cristallographie</i> <b>92</b> (1969), 38                                       | <i>Journal of Physics and Chemistry of Solids</i> <b>50</b> (1989), 297 |
| Raisaite           | $\text{CuMg}[\text{Te}^{6+}\text{O}_4(\text{OH})_2](\text{H}_2\text{O})_6$                                                                                  | A  | 2014-046 | Russia          | <i>European Journal of Mineralogy</i> <b>28</b> (2016), 459                                                                              |                                                                         |
| Raite              | $\text{Na}_3\text{Mn}^{2+}_3\text{Ti}_{0.25}(\text{Si}_8\text{O}_{20})(\text{OH})_2(\text{H}_2\text{O})_{10}$                                               | A  | 1972-010 | Russia          | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>102</b> (1973), 54                                                         | <i>Crystallography Reports</i> <b>44</b> (1999), 565                    |
| Rajite             | $\text{CuTe}^{4+}_2\text{O}_5$                                                                                                                              | A  | 1978-039 | USA             | <i>Mineralogical Magazine</i> <b>43</b> (1979), 91                                                                                       | <i>Journal of Alloys and Compounds</i> <b>792</b> (2019), 297           |
| Rakovanite         | $(\text{NH}_4)_3\text{Na}_3[\text{V}_{10}\text{O}_{28}](\text{H}_2\text{O})_{12}$                                                                           | Rd | 2010-052 | USA             | <i>Canadian Mineralogist</i> <b>49</b> (2011), 595                                                                                       | <i>Canadian Mineralogist</i> <b>59</b> (2021), 771                      |
| Ralphcannonite     | $\text{AgZn}_2\text{TiAs}_2\text{S}_6$                                                                                                                      | A  | 2014-077 | Switzerland     | <i>Mineralogical Magazine</i> <b>79</b> (2015), 1089                                                                                     |                                                                         |
| Ramaccioniite      | $\text{Cu}_4(\text{SeO}_4)(\text{OH})_6$                                                                                                                    | A  | 2018-082 | Argentina       | CNMNC Newsletter 46 - <i>Mineralogical Magazine</i> <b>82</b> (2018), 1369; <i>European Journal of Mineralogy</i> <b>30</b> (2018), 1181 |                                                                         |
| Ramanite-(Cs)      | $\text{CsB}_5\text{O}_6(\text{OH})_4(\text{H}_2\text{O})_2$                                                                                                 | A  | 2007-007 | Italy           | <i>American Mineralogist</i> <b>93</b> (2008), 1034                                                                                      | <i>Journal of Alloys and Compounds</i> <b>334</b> (2002), 97            |
| Ramanite-(Rb)      | $\text{RbB}_5\text{O}_6(\text{OH})_4(\text{H}_2\text{O})_2$                                                                                                 | A  | 2007-006 | Italy           | <i>American Mineralogist</i> <b>93</b> (2008), 1034                                                                                      | <i>Acta Crystallographica</i> <b>C40</b> (1984), 217                    |
| Ramazzoite         | $[\text{Mg}_8\text{Cu}_{12}(\text{PO}_4)(\text{CO}_3)_4(\text{OH})_{24}(\text{H}_2\text{O})_{20}][(\text{H}_{0.33}\text{SO}_4)_3(\text{H}_2\text{O})_{36}]$ | A  | 2017-090 | Italy           | <i>European Journal of Mineralogy</i> <b>30</b> (2018), 827                                                                              |                                                                         |
| Rambergite         | MnS                                                                                                                                                         | A  | 1995-028 | Sweden          | <i>Geologiska Föreningens i Stockholm Förhandlingar</i> <b>118</b> (1996), A53                                                           | <i>Acta Crystallographica</i> <b>E57</b> (2001), i92                    |
| Ramdohrite         | $\text{Pb}_{5.9}\text{Fe}_{0.1}\text{Mn}_{0.1}\text{In}_{0.1}\text{Cd}_{0.2}\text{Ag}_{2.8}\text{Sb}_{10.8}\text{S}_{24}$                                   | G  | 1930     | Bolivia         | <i>Centralblatt für Mineralogie, Geologie und Paläontologie</i> <b>8</b> (1930), 365                                                     | <i>American Mineralogist</i> <b>98</b> (2013), 773                      |
| Rameauite          | $\text{K}_2\text{Ca}(\text{UO}_2)_6\text{O}_6(\text{OH})_4(\text{H}_2\text{O})_5 \cdot \text{H}_2\text{O}$                                                  | A  | 1971-045 | France          | <i>Mineralogical Magazine</i> <b>38</b> (1972), 781                                                                                      | <i>European Journal of Mineralogy</i> <b>28</b> (2016), 959             |
| Ramikite-(Y)       | $\text{Li}_4(\text{Na}, \text{Ca})_{12}(\text{Y}, \text{Ca}, \text{REE})_6\text{Zr}_6(\text{PO}_4)_{12}(\text{CO}_3)_4\text{O}_4[(\text{OH}), \text{F}]_4$  | A  | 2009-021 | Canada          | <i>Canadian Mineralogist</i> <b>51</b> (2013), 569                                                                                       |                                                                         |
| Rammelsbergite     | $\text{NiAs}_2$                                                                                                                                             | G  | 1845     | Germany         | Handbuch der Bestimmenden Mineralogie. Braumüller and Seidel, Wien (1845), 559                                                           | <i>Acta Chemica Scandinavica</i> <b>A33</b> (1979), 469                 |

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|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|----------|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|
| Ramosite       | $\text{Pb}_{25.7}\text{Sn}_{8.3}\text{Mn}_{3.4}\text{Sb}_{6.4}\text{S}_{56.2}$                                                                                                    | A | 2019-099 | Peru                             | CNMNC Newsletter 53 - <i>Mineralogical Magazine</i> <b>84</b> (2020), 159; <i>European Journal of Mineralogy</i> <b>32</b> (2020), 209 |                                                                 |
| Ramsbeckite    | $\text{Cu}_{15}(\text{SO}_4)_4(\text{OH})_{22} \cdot 6\text{H}_2\text{O}$                                                                                                         | A | 1984-067 | Germany                          | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1985), 550                                                                          | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1988), 38    |
| Ramsdellite    | $\text{MnO}_2$                                                                                                                                                                    | G | 1943     | USA                              | <i>Economic Geology</i> <b>38</b> (1943), 269                                                                                          | <i>American Mineralogist</i> <b>89</b> (2004), 969              |
| Ranciéite      | $[(\text{Ca}, \text{Mn}^{2+})_{0.2}(\text{H}_2\text{O})_{0.6}](\text{Mn}^{4+}, \text{Mn}^{3+})\text{O}_2$                                                                         | G | 1859     | France                           | Cours de Minéralogie, vol. 2. Masson, Toulouse (1859), 329                                                                             | <i>European Journal of Mineralogy</i> <b>17</b> (2005), 163     |
| Rankachite     | $\text{Ca}_{0.5}(\text{V}^{4+}, \text{V}^{5+})(\text{W}^{6+}, \text{Fe}^{3+})_2\text{O}_8(\text{OH}) \cdot 2\text{H}_2\text{O}$                                                   | A | 1983-044 | Germany                          | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1984), 289                                                                          | <i>Der Erzgräber</i> <b>19</b> (2005), 58                       |
| Rankamaite     | $(\text{Na}, \text{K})_3(\text{Ta}, \text{Nb}, \text{Al})_{11}(\text{O}, \text{OH})_{31}$                                                                                         | A | 1968-002 | Democratic Republic of the Congo | <i>Bulletin of the Geological Society of Finland</i> <b>41</b> (1969), 47                                                              | <i>American Mineralogist</i> <b>96</b> (2011), 1455             |
| Rankinite      | $\text{Ca}_3\text{Si}_2\text{O}_7$                                                                                                                                                | G | 1942     | United Kingdom                   | <i>Mineralogical Magazine</i> <b>26</b> (1942), 190                                                                                    | <i>Mineralogical Journal</i> <b>8</b> (1976), 240               |
| Ransomite      | $\text{CuFe}^{3+}_2(\text{SO}_4)_4(\text{H}_2\text{O})_3$                                                                                                                         | G | 1928     | USA                              | <i>American Mineralogist</i> <b>13</b> (1928), 203                                                                                     | <i>American Mineralogist</i> <b>55</b> (1970), 729              |
| Ranunculite    | $\text{Al}(\text{UO}_2)(\text{PO}_3\text{OH})(\text{OH})_3 \cdot 4\text{H}_2\text{O}$                                                                                             | A | 1978-067 | Democratic Republic of the Congo | <i>Mineralogical Magazine</i> <b>43</b> (1979), 321                                                                                    | <i>Mineralogical Magazine</i> <b>90</b> (2026), 164             |
| Rapidcreekite  | $\text{Ca}_2(\text{SO}_4)(\text{CO}_3)(\text{H}_2\text{O})_4$                                                                                                                     | A | 1984-035 | Canada                           | <i>Canadian Mineralogist</i> <b>24</b> (1986), 51                                                                                      | <i>Journal of Geosciences</i> <b>66</b> (2021), 147             |
| Rappoldite     | $\text{PbCo}_2(\text{AsO}_4)_2(\text{H}_2\text{O})_2$                                                                                                                             | A | 1998-015 | Germany                          | <i>Mineralogical Magazine</i> <b>64</b> (2000), 1109                                                                                   |                                                                 |
| Raslakite      | $\text{Na}_{15}\text{Ca}_3\text{Fe}_3(\text{Na}, \text{Zr})_3\text{Zr}_3(\text{Si}, \text{Nb})\text{Si}_{25}\text{O}_{73}(\text{OH}, \text{H}_2\text{O})_3(\text{Cl}, \text{OH})$ | A | 2002-067 | Russia                           | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>132(5)</b> (2003), 22                                                  | <i>Crystallography Reports</i> <b>66</b> (2021), 120            |
| Rasmussenite   | $\text{Ca}(\text{C}_2\text{H}_3\text{O}_3)_2(\text{H}_2\text{O})_2 \cdot \text{H}_2\text{O}$                                                                                      | A | 2024-018 | USA                              | <i>Canadian Journal of Mineralogy and Petrology</i> <b>63</b> (2025), 385                                                              |                                                                 |
| Raspite        | $\text{Pb}(\text{WO}_4)$                                                                                                                                                          | G | 1897     | Australia                        | <i>Annalen des Kaiserlich-Königlichen Naturhistorischen Hofmuseums</i> <b>12</b> (1897), 33                                            | <i>American Mineralogist</i> <b>99</b> (2014), 1507             |
| Rastsvetaevite | $\text{Na}_{27}\text{K}_8\text{Ca}_{12}\text{Fe}_3\text{Zr}_6\text{Si}_{52}\text{O}_{144}(\text{OH}, \text{O})_6\text{Cl}_2$                                                      | A | 2000-028 | Russia                           | <i>Zapiski Rossiyskogo Mineralogicheskogo Obshchestva</i> <b>135(1)</b> (2006), 49                                                     |                                                                 |
| Rasvumite      | $\text{KFe}_2\text{S}_3$                                                                                                                                                          | A | 1970-028 | Russia                           | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>99</b> (1970), 712                                                       | <i>Journal of Solid State Chemistry</i> <b>177</b> (2004), 1867 |
| Rathite        | $\text{Ag}_2\text{Pb}_{12-x}\text{Ti}_{x/2}\text{As}_{18+x/2}\text{S}_{40}$                                                                                                       | G | 1896     | Switzerland                      | <i>Zeitschrift für Kristallographie</i> <b>26</b> (1896), 593                                                                          | <i>Minerals</i> <b>8</b> (2018), 466                            |
| Rathite-IV     | $\text{Pb}_3\text{As}_5\text{S}_{10}$                                                                                                                                             | Q | 1964     | Switzerland                      | <i>Schweizerische Mineralogische und Petrographische Mitteilungen</i> <b>44</b> (1964), 5                                              |                                                                 |
| Rauchite       | $\text{Ni}(\text{UO}_2)_2(\text{AsO}_4)_2(\text{H}_2\text{O})_6 \cdot 4\text{H}_2\text{O}$                                                                                        | A | 2010-037 | Russia                           | <i>European Journal of Mineralogy</i> <b>24</b> (2012), 913                                                                            |                                                                 |
| Raudseppite    | $\text{Ba}_2\text{Ca}_7(\text{Si}_3\text{O}_9)_2(\text{CO}_3)_2\text{Cl}_2$                                                                                                       | A | 2025-070 | Canada                           | CNMNC Newsletter 89 - <i>Mineralogical Magazine</i> <b>90</b> (2026), 481; <i>European Journal of Mineralogy</i> <b>38</b> (2026), 117 |                                                                 |
| Rauenthalite   | $\text{Ca}_3(\text{AsO}_4)_2(\text{H}_2\text{O})_8 \cdot 2\text{H}_2\text{O}$                                                                                                     | A | 1964-007 | France                           | <i>Bulletin de la Société Française de Minéralogie et de Cristallographie</i> <b>87</b> (1964), 169                                    | <i>Acta Crystallographica</i> <b>B39</b> (1983), 4              |
| Rauvite        | $\text{Ca}(\text{UO}_2)_2\text{V}_{10}\text{O}_{28} \cdot 16\text{H}_2\text{O}$                                                                                                   | Q | 1922     | USA                              | <i>Engineering and Mining Journal - Press</i> <b>114</b> (1922), 272                                                                   |                                                                 |

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|-------------------|-------------------------------------------------|----|-----------|-----------------|----------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Ravatite          | $C_{14}H_{10}$                                  | A  | 1992-019  | Tajikistan      | <i>European Journal of Mineralogy</i> <b>5</b> (1993), 699                                                                             | <i>Acta Crystallographica</i> <b>B46</b> (1990), 830                                  |
| Raydemarkite      | $MoO_3(H_2O)$                                   | A  | 2022-015  | USA             | <i>Canadian Journal of Mineralogy and Petrology</i> <b>61</b> (2023), 203                                                              |                                                                                       |
| Raygrantite       | $Pb_{10}Zn(SO_4)_6(SiO_4)_2(OH)_2$              | A  | 2013-001  | USA             | <i>Canadian Mineralogist</i> <b>54</b> (2016), 625                                                                                     |                                                                                       |
| Rayite            | $(Ag,Tl)_2Pb_8Sb_8S_{21}$                       | A  | 1982-029  | India           | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1983), 296                                                                          |                                                                                       |
| Realgar           | AsS                                             | G  | 1747      | unknown         | Mineralogia, eller Mineralriktet. Lars Salvius, Stockholm (1747), 214                                                                  | <i>Journal of Applied Crystallography</i> <b>57</b> (2024), 220                       |
| Reaphookhillite   | $MgZn_2(PO_4)_2(H_2O)_4$                        | A  | 2018-128  | Australia       | <i>Mineralogical Magazine</i> <b>86</b> (2022), 525                                                                                    |                                                                                       |
| Rebulite          | $Tl_5Sb_5As_8S_{22}$                            | Rd | 2008 s.p. | North Macedonia | <i>Zeitschrift für Kristallographie</i> <b>160</b> (1982), 109                                                                         | <i>Macedonian Journal of Chemistry and Chemical Engineering</i> <b>34</b> (2015), 125 |
| Reckibachite      | $Ag_2Pb_{12}As_{14}Sb_4S_{40}$                  | A  | 2019-071  | Switzerland     | CNMNC Newsletter 77 - <i>Mineralogical Magazine</i> <b>88</b> (2024), 203; <i>European Journal of Mineralogy</i> <b>36</b> (2024), 165 |                                                                                       |
| Rectorite         | $(Na,Ca)Al_4(Si,Al)_8O_{20}(OH)_4 \cdot 2H_2O$  | A  | 1967 s.p. | USA             | <i>American Journal of Science</i> <b>42</b> (1891), 11                                                                                | <i>American Mineralogist</i> <b>51</b> (1966), 1035                                   |
| Redcanyonite      | $(NH_4)_2Mn[(UO_2)_4O_4(SO_4)_2](H_2O)_4$       | A  | 2016-082  | USA             | <i>Mineralogical Magazine</i> <b>82</b> (2018), 1261                                                                                   |                                                                                       |
| Reddingite        | $Mn^{2+}_3(PO_4)_2(H_2O)_3$                     | Rd | 1980 s.p. | USA             | <i>American Journal of Science and Arts</i> <b>116</b> (1878), 33                                                                      | <i>Mineralogical Magazine</i> <b>43</b> (1980), 789                                   |
| Redgillite        | $Cu_6(SO_4)(OH)_{10}(H_2O)$                     | A  | 2004-016  | United Kingdom  | <i>Mineralogical Magazine</i> <b>69</b> (2005), 973                                                                                    |                                                                                       |
| Redingtonite      | $Fe^{2+}Cr_2(SO_4)_4(H_2O)_{17} \cdot 5H_2O$    | Q  | 1888      | USA             | <i>U.S. Geological Survey Monograph</i> <b>13</b> (1888), 279                                                                          |                                                                                       |
| Redledgeite       | $Ba(Ti_6Cr^{3+}_2)O_{16}$                       | A  | 1967 s.p. | USA             | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1961), 107                                                                          | <i>Canadian Mineralogist</i> <b>35</b> (1997), 1531                                   |
| Redmondite        | $[Pb_8O_2Zn(OH)_6](S_2O_3)_4$                   | A  | 2021-072  | USA             | <i>Canadian Journal of Mineralogy and Petrology</i> <b>61</b> (2023), 189                                                              |                                                                                       |
| Redondite         | $Al(PO_4) \cdot 2H_2O$                          | Q  | 1967 s.p. | United Kingdom  | <i>American Journal of Science</i> <b>47</b> (1869), 428                                                                               |                                                                                       |
| Reederite-(Y)     | $(Na,Mn)_{15}Y_2(CO_3)_9(SO_3F)Cl$              | A  | 1994-012  | Canada          | <i>American Mineralogist</i> <b>80</b> (1995), 1059                                                                                    |                                                                                       |
| Reedmergnerite    | $Na(BSi_3O_8)$                                  | A  | 1962 s.p. | USA             | <i>American Mineralogist</i> <b>45</b> (1960), 188                                                                                     | <i>European Journal of Mineralogy</i> <b>25</b> (2013), 499                           |
| Reevesite         | $Ni_6Fe^{3+}_2(OH)_{16}(CO_3) \cdot 4H_2O$      | A  | 1966-025  | Australia       | <i>American Mineralogist</i> <b>52</b> (1967), 1190                                                                                    | <i>Clay Minerals</i> <b>33</b> (1998), 285                                            |
| Refikite          | $C_{20}H_{34}O_2$                               | G  | 1853      | Italy           | <i>Journal des Connaissances Médicales Pratique et de Pharmacologie</i> <b>19</b> (1853), 561                                          | <i>Mineralogical Magazine</i> <b>79</b> (2015), 59                                    |
| Regerite          | $KFe_6(PO_4)_4(OH)_7(H_2O)_6 \cdot 4H_2O$       | A  | 2023-028  | Germany         | <i>European Journal of Mineralogy</i> <b>35</b> (2023), 805                                                                            |                                                                                       |
| Reichenbachite    | $Cu_5(PO_4)_2(OH)_4$                            | A  | 1985-044  | Germany         | <i>American Mineralogist</i> <b>72</b> (1987), 404                                                                                     | <i>Structural Chemistry</i> <b>27</b> (2016), 1715                                    |
| Reidite           | $Zr(SiO_4)$                                     | A  | 2001-013  | USA / Barbados  | <i>American Mineralogist</i> <b>87</b> (2002), 562                                                                                     | <i>American Mineralogist</i> <b>104</b> (2019), 830                                   |
| Reinerite         | $Zn_3(AsO_3)_2$                                 | G  | 1958      | Namibia         | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1958), 160                                                                          | <i>American Mineralogist</i> <b>62</b> (1977), 1129                                   |
| Reinhardbraunsite | $Ca_5(SiO_4)_2(OH)_2$                           | A  | 1980-032  | Germany         | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1983), 119                                                                          | <i>American Mineralogist</i> <b>94</b> (2009), 1361                                   |
| Relianceite-(K)   | $K_4Mg(V^{4+}O)_2(C_2O_4)(PO_3OH)_4(H_2O)_{10}$ | A  | 2020-102  | USA             | <i>Mineralogical Magazine</i> <b>86</b> (2022), 539                                                                                    |                                                                                       |
| Rémondite-(Ce)    | $Na_3(Ce,Ca,Na)_3(CO_3)_5$                      | Rn | 1987-035  | Cameroon        | <i>Comptes Rendus de l'Académie des Sciences de Paris</i> <b>307</b> (1988), 915                                                       | <i>Acta Crystallographica</i> <b>C45</b> (1989), 185                                  |

|                   |                                                                                                                                                          |    |           |                                  |                                                                                               |                                                                               |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----------|----------------------------------|-----------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|
| Rémondite-(La)    | $\text{Na}_3(\text{La,Ca,Na})_3(\text{CO}_3)_5$                                                                                                          | Rn | 1999-006  | Russia                           | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>129(1)</b> (2000), 53         |                                                                               |
| Renardite         | $\text{Pb}(\text{UO}_2)_4(\text{PO}_4)_2(\text{OH})_4 \cdot 7\text{H}_2\text{O}$                                                                         | Q  | 1928      | Democratic Republic of the Congo | <i>Bulletin de la Société Française de Minéralogie</i> <b>51</b> (1928), 247                  | <i>American Mineralogist</i> <b>39</b> (1954), 448                            |
| Rengeite          | $\text{Sr}_4\text{Ti}_4\text{Zr}(\text{Si}_2\text{O}_7)_2\text{O}_8$                                                                                     | A  | 1998-055  | Japan                            | <i>Mineralogical Magazine</i> <b>65</b> (2001), 111                                           | <i>Journal of Mineralogical and Petrological Sciences</i> <b>97</b> (2002), 7 |
| Renierite         | $(\text{Cu}^{1+}, \text{Zn})_{11}\text{Fe}_4(\text{Ge}^{4+}, \text{As}^{5+})_2\text{S}_{16}$                                                             | Rn | 2007 s.p. | Democratic Republic of the Congo | <i>Annales de la Société Géologique de Belgique</i> <b>72</b> (1948), 19                      | <i>American Mineralogist</i> <b>74</b> (1989), 1177                           |
| Reppiaite         | $\text{Mn}^{2+}_5(\text{VO}_4)_2(\text{OH})_4$                                                                                                           | A  | 1991-007  | Italy                            | <i>Zeitschrift für Kristallographie</i> <b>201</b> (1992), 223                                | <i>European Journal of Mineralogy</i> <b>8</b> (1996), 77                     |
| Retgersite        | $\text{Ni}(\text{SO}_4)(\text{H}_2\text{O})_6$                                                                                                           | G  | 1949      | Peru                             | <i>American Mineralogist</i> <b>34</b> (1949), 188                                            | <i>Journal of Applied Crystallography</i> <b>52</b> (2019), 1371              |
| Retzian-(Ce)      | $\text{Mn}^{2+}_2\text{Ce}(\text{AsO}_4)(\text{OH})_4$                                                                                                   | Rd | 1982 s.p. | Sweden                           | <i>Bulletin of the Geological Institution of the University of Upsala</i> <b>2</b> (1894), 54 |                                                                               |
| Retzian-(La)      | $\text{Mn}^{2+}_2\text{La}(\text{AsO}_4)(\text{OH})_4$                                                                                                   | A  | 1983-077  | USA                              | <i>Mineralogical Magazine</i> <b>48</b> (1984), 533                                           |                                                                               |
| Retzian-(Nd)      | $\text{Mn}^{2+}_2\text{Nd}(\text{AsO}_4)(\text{OH})_4$                                                                                                   | A  | 1982 s.p. | USA                              | <i>American Mineralogist</i> <b>67</b> (1982), 841                                            |                                                                               |
| Revdite           | $\text{Na}_{16}\text{Si}_{16}\text{O}_{27}(\text{OH})_{26}(\text{H}_2\text{O})_{26} \cdot 2\text{H}_2\text{O}$                                           | A  | 1979-082  | Russia                           | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>109</b> (1980), 565             | <i>Kristallografiya</i> <b>37</b> (1992), 1177                                |
| Rewitzerite       | $[\text{K}(\text{H}_2\text{O})]\text{Mn}_2(\text{Al}_2\text{Ti})(\text{PO}_4)_4[\text{O}(\text{OH})](\text{H}_2\text{O})_{10} \cdot 4\text{H}_2\text{O}$ | A  | 2023-005  | Germany                          | <i>Mineralogical Magazine</i> <b>87</b> (2023), 830                                           |                                                                               |
| Reyerite          | $\text{Na}_2\text{Ca}_{14}\text{Al}_2\text{Si}_{22}\text{O}_{58}(\text{OH})_8(\text{H}_2\text{O})_6$                                                     | G  | 1906      | Denmark (Greenland)              | <i>Tschermaks Mineralogische und Petrographische Mitteilungen</i> <b>25</b> (1906), 519       | <i>Mineralogical Magazine</i> <b>52</b> (1988), 247                           |
| Reynoldsite       | $\text{Pb}_2\text{Mn}^{4+}_2\text{O}_5(\text{CrO}_4)$                                                                                                    | A  | 2011-051  | USA / Australia                  | <i>American Mineralogist</i> <b>97</b> (2012), 1187                                           |                                                                               |
| Reznitskyite      | $\text{CaMg}(\text{VO}_4)\text{F}$                                                                                                                       | A  | 2021-067  | Russia                           | <i>Mineralogical Magazine</i> <b>86</b> (2022), 307                                           |                                                                               |
| Rhabdobarite-(Mo) | $\text{Mg}_{12}\text{Mo}^{6+}_{1.33}\text{O}_6(\text{BO}_3)_6\text{F}_2$                                                                                 | A  | 2019-114  | Russia                           | <i>Physics and Chemistry of Minerals</i> <b>47</b> (2020), 44                                 |                                                                               |
| Rhabdobarite-(V)  | $\text{Mg}_{12}(\text{V}^{5+}, \text{Mo}^{6+}, \text{W}^{6+})_{1.33}\text{O}_6\{[\text{BO}_3]_{6-x}(\text{PO}_4)_x\text{F}_{2-x}\}$<br>( $x < 1$ )       | A  | 2017-108  | Russia                           | <i>Physics and Chemistry of Minerals</i> <b>47</b> (2020), 44                                 |                                                                               |
| Rhabdobarite-(W)  | $\text{Mg}_{12}\text{W}^{6+}_{1.33}\text{O}_6(\text{BO}_3)_6\text{F}_2$                                                                                  | A  | 2017-109  | Russia                           | <i>Physics and Chemistry of Minerals</i> <b>47</b> (2020), 44                                 |                                                                               |
| Rhabdophane-(Ce)  | $\text{Ce}(\text{PO}_4) \cdot \text{H}_2\text{O}$                                                                                                        | Rn | 1966 s.p. | United Kingdom                   | <i>Zeitschrift für Kristallographie, Mineralogie und Petrographie</i> <b>3</b> (1878), 191    |                                                                               |
| Rhabdophane-(La)  | $\text{La}(\text{PO}_4) \cdot \text{H}_2\text{O}$                                                                                                        | Rn | 1987 s.p. | USA                              | <i>American Journal of Science</i> <b>25</b> (1883), 459                                      |                                                                               |
| Rhabdophane-(Nd)  | $\text{Nd}(\text{PO}_4) \cdot \text{H}_2\text{O}$                                                                                                        | Rn | 1966 s.p. | USA                              | <i>Geological Society of America Bulletin</i> <b>68</b> (1957), 1744                          |                                                                               |
| Rhabdophane-(Y)   | $\text{Y}(\text{PO}_4) \cdot \text{H}_2\text{O}$                                                                                                         | A  | 2011-031  | Japan                            | <i>Journal of Mineralogical and Petrological Sciences</i> <b>107</b> (2012), 110              |                                                                               |
| Rheniite          | $\text{ReS}_2$                                                                                                                                           | A  | 1999-004a | Russia                           | <i>Zapiski Rossiyskogo Mineralogicheskogo Obshchestva</i> <b>134(5)</b> (2005), 32            | <i>Minerals</i> <b>11</b> (2021), 207                                         |
| Rhodarsenide      | $\text{Rh}_2\text{As}$                                                                                                                                   | A  | 1996-030  | Serbia                           | <i>European Journal of Mineralogy</i> <b>9</b> (1997), 1321                                   |                                                                               |
| Rhodesite         | $\text{KHCa}_2(\text{Si}_8\text{O}_{19})(\text{H}_2\text{O})_5$                                                                                          | G  | 1957      | South Africa                     | <i>Mineralogical Magazine</i> <b>31</b> (1957), 607                                           | <i>Journal of Physical Chemistry B</i> <b>102</b> (1998), 4379                |

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| Rhodium         | Rh                                                                                                                          | A  | 1974-012  | USA                              | <i>Canadian Mineralogist</i> <b>12</b> (1974), 399                                                                                     |                                                                                   |
| Rhodizite       | $\text{KBe}_4\text{Al}_4(\text{B}_{11}\text{Be})\text{O}_{28}$                                                              | G  | 1834      | Russia                           | <i>Annalen der Physik und Chemie</i> <b>33</b> (1834), 253                                                                             | <i>Mineralogical Magazine</i> <b>50</b> (1986), 163                               |
| Rhodochrosite   | $\text{Mn}(\text{CO}_3)$                                                                                                    | A  | 1962 s.p. | Romania                          | Handbuch der Mineralogie, Vol. 1. Vandenhoeck und Ruprecht, Göttingen (1813), 1081                                                     | <i>American Mineralogist</i> <b>100</b> (2015), 2625                              |
| Rhodonite       | $\text{CaMn}_3\text{Mn}(\text{Si}_5\text{O}_{15})$                                                                          | Rd | 2019 s.p. | Germany                          | <i>Journal für Chemie und Physik</i> <b>26</b> (1819), 108                                                                             | <i>American Mineralogist</i> <b>90</b> (2005), 969                                |
| Rhodostannite   | $\text{Cu}^+(\text{Fe}^{2+}_{0.5}\text{Sn}^{4+}_{1.5})\text{S}_4$                                                           | Rd | 1968-018  | Bolivia                          | <i>Mineralogical Magazine</i> <b>36</b> (1968), 1045                                                                                   | <i>Acta Crystallographica</i> <b>B35</b> (1979), 2195                             |
| Rhodplumsite    | $\text{Rh}_3\text{Pb}_2\text{S}_2$                                                                                          | A  | 1982-043  | Russia                           | <i>Mineralogicheskij Zhurnal</i> <b>5</b> (1983), 87                                                                                   | <i>Zeitschrift für Anorganische und Allgemeine Chemie</i> <b>635</b> (2009), 2410 |
| Rhomboclase     | $(\text{H}_5\text{O}_2)\text{Fe}^{3+}(\text{SO}_4)_2 \cdot 2\text{H}_2\text{O}$                                             | G  | 1891      | Slovakia                         | <i>Akadémiai Értésítő</i> <b>2</b> (1891), 96                                                                                          | <i>American Mineralogist</i> <b>102</b> (2017), 643                               |
| Rhönite         | $\text{Ca}_4[\text{Mg}_8\text{Fe}^{3+}_2\text{Ti}_2]\text{O}_4[\text{Si}_6\text{Al}_6\text{O}_{36}]$                        | Rn | 2007 s.p. | Germany                          | <i>Neues Jahrbuch für Mineralogie, Geologie und Paläontologie</i> <b>24</b> (1907), 475                                                | <i>European Journal of Mineralogy</i> <b>2</b> (1990), 203                        |
| Ribbeite        | $\text{Mn}^{2+}_5(\text{SiO}_4)_2(\text{OH})_2$                                                                             | A  | 1985-045  | Namibia                          | <i>American Mineralogist</i> <b>72</b> (1987), 213                                                                                     | <i>American Mineralogist</i> <b>78</b> (1993), 190                                |
| Richardsite     | $\text{Zn}_2\text{CuGaS}_4$                                                                                                 | A  | 2019-136  | Tanzania                         | <i>Minerals</i> <b>10</b> (2020), 467                                                                                                  |                                                                                   |
| Richardsollyite | $\text{TiPbAsS}_3$                                                                                                          | A  | 2016-043  | Switzerland                      | <i>European Journal of Mineralogy</i> <b>29</b> (2017), 679                                                                            |                                                                                   |
| Richellite      | $\text{CaFe}^{3+}_2(\text{PO}_4)_2(\text{OH},\text{F})_2$                                                                   | Q  | 1883      | Belgium                          | <i>Annales de la Société Géologique de Belgique, Mémoires</i> <b>10</b> (1883), 36                                                     | <i>American Mineralogist</i> <b>48</b> (1963), 300                                |
| Richelsdorfite  | $\text{Ca}_2\text{Cu}_5\text{Sb}^{5+}(\text{AsO}_4)_4(\text{OH})_6\text{Cl}(\text{H}_2\text{O})_5 \cdot \text{H}_2\text{O}$ | A  | 1982-019  | Germany                          | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1983), 145                                                                          | <i>Zeitschrift für Kristallographie</i> <b>179</b> (1987), 323                    |
| Richetite       | $(\text{Fe}^{3+}, \text{Mg})_x\text{Pb}^{2+}_{8.6}(\text{UO}_2)_{36}\text{O}_{36}(\text{OH})_{24}(\text{H}_2\text{O})_{41}$ | G  | 1947      | Democratic Republic of the Congo | <i>Annales de la Société Géologique de Belgique</i> <b>70</b> (1947), B212                                                             | <i>American Mineralogist</i> <b>102</b> (2017), 1771                              |
| Richterite      | $\text{Na}(\text{NaCa})\text{Mg}_5\text{Si}_8\text{O}_{22}(\text{OH})_2$                                                    | Rd | 2012 s.p. | Sweden                           | <i>Berg- und Huttenmannische Zeitung</i> <b>24</b> (1865), 364                                                                         | <i>Canadian Mineralogist</i> <b>56</b> (2018), 939                                |
| Rickardite      | $\text{Cu}_{3-x}\text{Te}_2$                                                                                                | G  | 1903      | USA                              | <i>American Journal of Science</i> <b>15</b> (1903), 69                                                                                | <i>Chemistry of Materials</i> <b>33</b> (2021), 1832                              |
| Rickturnerite   | $\text{Pb}_7\text{O}_4[\text{Mg}(\text{OH})_4](\text{OH})\text{Cl}_3$                                                       | A  | 2010-034  | United Kingdom                   | <i>Mineralogical Magazine</i> <b>76</b> (2012), 59                                                                                     |                                                                                   |
| Riebeckite      | $\square\text{Na}_2(\text{Fe}^{2+}_3\text{Fe}^{3+}_2)\text{Si}_8\text{O}_{22}(\text{OH})_2$                                 | Rd | 2012 s.p. | Yemen                            | <i>Zeitschrift der Deutschen Geologischen Gesellschaft</i> <b>40</b> (1888), 138                                                       | <i>American Mineralogist</i> <b>108</b> (2023), 59                                |
| Riesite         | $\text{TiTiO}_4$                                                                                                            | A  | 2015-110a | Germany                          | <i>Minerals</i> <b>10</b> (2020), 78                                                                                                   |                                                                                   |
| Rietveldite     | $\text{Fe}(\text{UO}_2)(\text{SO}_4)_2(\text{H}_2\text{O})_5$                                                               | A  | 2016-081  | USA / Germany / Czech Republic   | <i>Journal of Geosciences</i> <b>62</b> (2017), 107                                                                                    |                                                                                   |
| Rigrahamite     | $\text{Na}_2\text{Ca}_2\text{Th}_2(\text{CO}_3)_4(\text{HCO}_3)_2(\text{OH})_4(\text{H}_2\text{O})_7$                       | A  | 2024-092a | Canada                           | CNMNC Newsletter 88 - <i>Mineralogical Magazine</i> <b>90</b> (2026), 192; <i>European Journal of Mineralogy</i> <b>37</b> (2025), 921 |                                                                                   |
| Rilandite       | $\text{Cr}_6\text{SiO}_{11} \cdot 5\text{H}_2\text{O}$ (?)                                                                  | Q  | 1933      | USA                              | <i>American Mineralogist</i> <b>18</b> (1933), 195                                                                                     |                                                                                   |
| Rimkorolgit     | $\text{BaMg}_5(\text{PO}_4)_4(\text{H}_2\text{O})_7 \cdot \text{H}_2\text{O}$                                               | A  | 1990-032  | Russia                           | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>124(1)</b> (1995), 90                                                  | <i>European Journal of Mineralogy</i> <b>14</b> (2002), 397                       |
| Ringwoodite     | $\text{SiMg}_2\text{O}_4$                                                                                                   | A  | 1968-036  | Australia                        | <i>Nature</i> <b>221</b> (1969), 943                                                                                                   | <i>European Journal of Mineralogy</i> <b>34</b> (2022), 167                       |
| Rinkite-(Ce)    | $\text{Ca}_2(\text{CaCe})\text{Na}(\text{NaCa})\text{Ti}(\text{Si}_2\text{O}_7)_2(\text{OF})\text{F}_2$                     | Rd | 2016 s.p. | Denmark (Greenland)              | <i>Zeitschrift für Kristallographie und Mineralogie</i> <b>9</b> (1884), 243                                                           | <i>Mineralogical Magazine</i> <b>75</b> (2011), 2755                              |

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|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|---|-----------|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| Rinkite-(Y)      | $\text{Ca}_2(\text{CaY})\text{Na}(\text{NaCa})\text{Ti}(\text{Si}_2\text{O}_7)_2(\text{OF})\text{F}_2$                                                       | A | 2017-043  | Tajikistan             | <i>Mineralogical Magazine</i> <b>83</b> (2019), 373                                                                                                             |                                                                                    |
| Rinmanite        | $\text{ZnSb}^{5+}(\text{Fe}^{3+}_2\text{Mg})\text{O}_7(\text{OH})$                                                                                           | A | 2000-036  | Sweden                 | <i>Canadian Mineralogist</i> <b>39</b> (2001), 1675                                                                                                             |                                                                                    |
| Rinneite         | $\text{K}_3\text{NaFe}^{2+}\text{Cl}_6$                                                                                                                      | G | 1909      | Germany                | <i>Centralblatt für Mineralogie, Geologie und Paläontologie</i> (1909), 72                                                                                      | <i>Acta Crystallographica</i> <b>C56</b> (2000), e228                              |
| Riomarinaite     | $\text{Bi}(\text{SO}_4)(\text{OH})(\text{H}_2\text{O})$                                                                                                      | A | 2000-004  | Italy                  | <i>Aufschluss</i> <b>56</b> (2005), 53                                                                                                                          | <i>Acta Crystallographica</i> <b>B38</b> (1982), 2879                              |
| Riosecoite       | $\text{Ca}_2\text{Mg}(\text{AsO}_3\text{OH})_3(\text{H}_2\text{O})_2$                                                                                        | A | 2018-023  | Chile                  | <i>Mineralogical Magazine</i> <b>83</b> (2019), 655                                                                                                             |                                                                                    |
| Riotintoite      | $\text{Al}(\text{SO}_4)(\text{OH})(\text{H}_2\text{O})_3$                                                                                                    | A | 2015-085  | Chile                  | <i>Canadian Mineralogist</i> <b>54</b> (2016), 1293                                                                                                             |                                                                                    |
| Rippite          | $\text{K}_2(\text{Nb,Ti})_2(\text{Si}_4\text{O}_{12})\text{O}(\text{O,F})$                                                                                   | A | 2016-025  | Russia                 | <i>Minerals</i> <b>10</b> (2020), 1102                                                                                                                          |                                                                                    |
| Rittmannite      | $(\text{Mn}^{2+},\text{Ca})\text{Mn}^{2+}(\text{Fe}^{2+},\text{Mn}^{2+},\text{Mg})_2(\text{Al,Fe}^{3+})_2(\text{PO}_4)_4(\text{OH})_2(\text{H}_2\text{O})_8$ | A | 1987-048  | Portugal               | <i>Canadian Mineralogist</i> <b>27</b> (1989), 447                                                                                                              |                                                                                    |
| Rivadavite       | $\text{Na}_6\text{Mg}[\text{B}_6\text{O}_7(\text{OH})_6]_4 \cdot 10\text{H}_2\text{O}$                                                                       | A | 1966-010  | Argentina              | <i>American Mineralogist</i> <b>52</b> (1967), 326<br><i>University of California Publications. Bulletin of the Department of Geology</i> <b>10</b> (1917), 327 | <i>Naturwissenschaften</i> <b>69</b> (1973), 350                                   |
| Riversideite     | $\text{Ca}_5\text{Si}_6\text{O}_{16}(\text{OH})_2 \cdot 2\text{H}_2\text{O}$                                                                                 | Q | 2014 s.p. | USA                    | <i>Mineralogical Magazine</i> <b>30</b> (1954), 293                                                                                                             |                                                                                    |
| Roaldite         | $(\text{Fe,Ni})_4\text{N}$                                                                                                                                   | A | 1980-079  | Australia              | <i>Lunar and Planetary Sciences</i> <b>12</b> (1981), 112                                                                                                       | <i>Canadian Mineralogist</i> <b>28</b> (1990), 751                                 |
| Robertsite       | $\text{Ca}_2\text{Mn}^{3+}_3\text{O}_2(\text{PO}_4)_3(\text{H}_2\text{O})_2 \cdot \text{H}_2\text{O}$                                                        | A | 1973-024  | USA                    | <i>American Mineralogist</i> <b>59</b> (1974), 48                                                                                                               | <i>Acta Crystallographica</i> <b>E68</b> (2012), i74                               |
| Robinsonite      | $\text{Pb}_4\text{Sb}_6\text{S}_{13}$                                                                                                                        | G | 1952      | USA                    | <i>American Mineralogist</i> <b>37</b> (1952), 438                                                                                                              | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (2004), 49                       |
| Rockbridgeite    | $(\text{Fe}^{2+}_{0.5}\text{Fe}^{3+}_{0.5})_2\text{Fe}^{3+}_3(\text{PO}_4)_3(\text{OH})_5$                                                                   | G | 1949      | USA                    | <i>American Mineralogist</i> <b>34</b> (1949), 513                                                                                                              | <i>European Journal of Mineralogy</i> <b>31</b> (2019), 585                        |
| Rodalquilarite   | $\text{H}_3\text{Fe}^{3+}_2(\text{Te}^{4+}\text{O}_3)_4\text{Cl}$                                                                                            | A | 1967-040  | Spain                  | <i>Bulletin de la Société Française de Minéralogie et de Cristallographie</i> <b>91</b> (1968), 28                                                              | <i>Journal of Geosciences</i> <b>56</b> (2011), 235                                |
| Rodolicoite      | $\text{Fe}^{3+}(\text{PO}_4)$                                                                                                                                | A | 1995-038  | Italy                  | <i>European Journal of Mineralogy</i> <b>9</b> (1997), 1101                                                                                                     | <i>Zeitschrift für Kristallographie</i> <b>218</b> (2003), 193                     |
| Roebbingite      | $\text{Ca}_6\text{Mn}^{2+}\text{Pb}_2(\text{Si}_3\text{O}_9)_2(\text{SO}_4)_2(\text{OH})_2(\text{H}_2\text{O})_4$                                            | G | 1897      | USA                    | <i>American Journal of Science</i> <b>153</b> (1897), 413                                                                                                       | <i>American Mineralogist</i> <b>69</b> (1984), 1173                                |
| Roedderite       | $\text{KNaMg}_2(\text{Mg}_3\text{Si}_{12})\text{O}_{30}$                                                                                                     | A | 1965-023  | Azerbaijan (meteorite) | <i>American Mineralogist</i> <b>51</b> (1966), 949                                                                                                              | <i>European Journal of Mineralogy</i> <b>1</b> (1989), 715                         |
| Rogermitchellite | $\text{Na}_6\text{Sr}_{12}\text{Ba}_2\text{Zr}_{13}\text{Si}_{39}\text{B}_6\text{O}_{123}(\text{OH})_{14}(\text{H}_2\text{O})_6 \cdot 4\text{H}_2\text{O}$   | A | 2003-019  | Canada                 | <i>Canadian Mineralogist</i> <b>48</b> (2010), 267                                                                                                              |                                                                                    |
| Roggianite       | $\text{Ca}_2\text{BeAl}_2\text{Si}_4\text{O}_{13}(\text{OH})_2 \cdot n\text{H}_2\text{O}$ ( $n < 2.5$ )                                                      | A | 1968-015  | Italy                  | <i>Clay Minerals</i> <b>8</b> (1969), 107                                                                                                                       | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1991), 307                      |
| Rohaite          | $(\text{Ti,Pb,K})_2\text{Cu}_{8.7}\text{Sb}_2\text{S}_4$                                                                                                     | A | 1973-043  | Denmark (Greenland)    | <i>Bulletin Grønlands Geologiske Undersøgelse</i> <b>126</b> (1978), 23                                                                                         | <i>Neues Jahrbuch für Mineralogie Abhandlungen</i> <b>138</b> (1980), 122          |
| Rokühnite        | $\text{FeCl}_2(\text{H}_2\text{O})_2$                                                                                                                        | A | 1979-036  | Germany                | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1980), 125                                                                                                   | <i>Kali und Steinsalz</i> <b>8</b> (1980), 81                                      |
| Rollandite       | $\text{Cu}_3(\text{AsO}_4)_2(\text{H}_2\text{O})_3 \cdot \text{H}_2\text{O}$                                                                                 | A | 1998-001  | France                 | <i>European Journal of Mineralogy</i> <b>12</b> (2000), 1045                                                                                                    |                                                                                    |
| Romanèchite      | $(\text{Ba,H}_2\text{O})_2(\text{Mn}^{4+},\text{Mn}^{3+})_5\text{O}_{10}$                                                                                    | A | 1982 s.p. | France                 | Collection de Minéralogie du Muséum d'Histoire Naturelle. Laboratoire de Minéralogie, Paris (1900), 28                                                          | <i>American Mineralogist</i> <b>73</b> (1988), 1155                                |
| Romanorlovite    | $\text{K}_{11}\text{Cu}_9\text{Cl}_{25}(\text{OH})_4(\text{H}_2\text{O})_2$                                                                                  | A | 2014-011  | Russia                 | <i>Zapiski Rossiyskogo Mineralogicheskogo Obshchestva</i> <b>145(4)</b> (2016), 36                                                                              | <i>Zapiski Rossiyskogo Mineralogicheskogo Obshchestva</i> <b>145(4)</b> (2016), 92 |
| Romarchite       | $\text{SnO}$                                                                                                                                                 | A | 1969-006  | Canada                 | <i>Canadian Mineralogist</i> <b>10</b> (1971), 916                                                                                                              | <i>Acta Crystallographica</i> <b>B36</b> (1980), 2763                              |

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| Römerite        | $\text{Fe}^{2+}\text{Fe}^{3+}_2(\text{SO}_4)_4(\text{H}_2\text{O})_{14}$                                  | G  | 1858      | Germany             | <i>Sitzungsberichte der Kaiserlichen Akademie der Wissenschaften</i> <b>28</b> (1858), 272                                              | <i>American Mineralogist</i> <b>110</b> (2025), 933                                    |
| Rondorfite      | $\text{Ca}_8\text{Mg}(\text{SiO}_4)_4\text{Cl}_2$                                                         | A  | 1997-013  | Germany             | <i>Neues Jahrbuch für Mineralogie Abhandlungen</i> <b>179</b> (2004), 265                                                               | <i>Crystallography Reports</i> <b>53</b> (2008), 199                                   |
| Rongibbsite     | $\text{Pb}_2(\text{Si}_4\text{Al})\text{O}_{11}(\text{OH})$                                               | A  | 2010-055  | USA                 | <i>American Mineralogist</i> <b>98</b> (2013), 236                                                                                      |                                                                                        |
| Ronneburgite    | $\text{K}_2\text{MnV}_4\text{O}_{12}$                                                                     | A  | 1998-069  | Germany             | <i>American Mineralogist</i> <b>86</b> (2001), 1081                                                                                     |                                                                                        |
| Ronpetersonite  | $\text{Ba}(\text{WO}_4)$                                                                                  | A  | 2023-036  | Canada              | <i>Canadian Journal of Mineralogy and Petrology</i> <b>62</b> (2024), 405                                                               |                                                                                        |
| Röntgenite-(Ce) | $\text{Ca}_2\text{Ce}_3(\text{CO}_3)_5\text{F}_3$                                                         | Rn | 1987 s.p. | Denmark (Greenland) | <i>American Mineralogist</i> <b>38</b> (1953), 868                                                                                      | <i>American Mineralogist</i> <b>78</b> (1993), 415                                     |
| Rooseveltite    | $\text{Bi}(\text{AsO}_4)$                                                                                 | G  | 1946      | Bolivia             | <i>Facultad Nacional Ingeniera, Universidad Tecnica Oruro, Boletin</i> <b>1</b> (1946), 10                                              | <i>Acta Crystallographica</i> <b>B38</b> (1982), 1559                                  |
| Roquesite       | $\text{CuInS}_2$                                                                                          | Rn | 1962-001  | France              | <i>Bulletin de la Société Française de Minéralogie et de Cristallographie</i> <b>86</b> (1963), 7                                       | <i>Zeitschrift für Kristallographie - New Crystal Structures</i> <b>217</b> (2002), 13 |
| Rorisite        | $\text{CaClF}$                                                                                            | A  | 1989-015  | Russia              | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>119(3)</b> (1990), 73                                                   | <i>Acta Crystallographica</i> <b>B33</b> (1977), 2790                                  |
| Rosasite        | $\text{CuZn}(\text{CO}_3)(\text{OH})_2$                                                                   | G  | 1908      | Italy               | <i>Rendiconti dell'Accademia Nazionale dei Lincei, Classe di Scienze Fisiche, Matematiche e Naturali, Serie V</i> <b>17</b> (1908), 723 | <i>Canadian Mineralogist</i> <b>55</b> (2017), 1027                                    |
| Roscherite      | $\text{Ca}_2\text{Mn}^{2+}_5\text{Be}_4(\text{PO}_4)_6(\text{OH})_4(\text{H}_2\text{O})_6$                | G  | 1914      | Germany             | <i>Bulletin International, Classe des Sciences Mathématiques Naturelles et de la Médecine</i> <b>19</b> (1914), 108                     | <i>Doklady Chemistry</i> <b>403</b> (2005), 160                                        |
| Roscoelite      | $\text{KV}^{3+}_2(\text{Si}_3\text{Al})\text{O}_{10}(\text{OH})_2$                                        | A  | 1998 s.p. | USA                 | <i>American Journal of Science</i> <b>12</b> (1876), 31                                                                                 | <i>Clays and Clay Minerals</i> <b>51</b> (2003), 301                                   |
| Roselite        | $\text{Ca}_2\text{Co}(\text{AsO}_4)_2(\text{H}_2\text{O})_2$                                              | G  | 1824      | Germany             | <i>Annals of Philosophy</i> <b>8</b> (1824), 439                                                                                        | <i>Canadian Mineralogist</i> <b>15</b> (1977), 36                                      |
| Rosemaryite     | $\square\text{NaMn}(\text{Fe}^{3+}\text{Al})(\text{PO}_4)_3$                                              | A  | 1979 s.p. | USA                 | <i>Mineralogical Magazine</i> <b>43</b> (1979), 227                                                                                     | <i>European Journal of Mineralogy</i> <b>18</b> (2006), 775                            |
| Rosenbergite    | $\text{AlF}[\text{F}_{0.5}(\text{H}_2\text{O})_{0.5}]_4 \cdot \text{H}_2\text{O}$                         | A  | 1992-046  | Italy               | <i>European Journal of Mineralogy</i> <b>5</b> (1993), 1167                                                                             | <i>American Mineralogist</i> <b>73</b> (1988), 855                                     |
| Rosenbuschite   | $\text{Ca}_6\text{Zr}_2\text{Na}_6\text{ZrTi}(\text{Si}_2\text{O}_7)_4(\text{OF})_2\text{F}_4$            | Rd | 2016 s.p. | Norway              | <i>Geologiska Föreningens i Stockholm Förhandlingar</i> <b>9</b> (1887), 247                                                            | <i>Canadian Mineralogist</i> <b>41</b> (2003), 1203                                    |
| Rosenhahnite    | $\text{Ca}_3\text{Si}_3\text{O}_8(\text{OH})_2$                                                           | A  | 1965-030  | USA                 | <i>American Mineralogist</i> <b>52</b> (1967), 336                                                                                      | <i>American Mineralogist</i> <b>62</b> (1977), 503                                     |
| Roshchinitite   | $(\text{Ag,Cu})_{19}\text{Pb}_{10}\text{Sb}_{51}\text{S}_{96}$                                            | A  | 1989-006  | Kazakhstan          | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>119</b> (1990), 32                                                        | <i>Zeitschrift für Kristallographie</i> <b>233</b> (2018), 255                         |
| Rosiaite        | $\text{PbSb}_2\text{O}_6$                                                                                 | A  | 1995-021  | Italy               | <i>European Journal of Mineralogy</i> <b>8</b> (1996), 487                                                                              |                                                                                        |
| Rosickýite      | S                                                                                                         | G  | 1931      | Czech Republic      | <i>Zeitschrift für Kristallographie</i> <b>80</b> (1931), 174                                                                           | <i>Acta Crystallographica</i> <b>C49</b> (1993), 125                                   |
| Rosièresite     | $[\text{Pb,Cu,Al,PO}_4,\text{H}_2\text{O}] (?)$                                                           | Q  | 1910      | France              | <i>Minéralogie de la France et de ses Colonies, Vol. 4. Beranger, Paris</i> (1910), 532                                                 |                                                                                        |
| Rossiantonite   | $\text{Al}_3(\text{PO}_4)(\text{SO}_4)_2(\text{OH})_2(\text{H}_2\text{O})_{10} \cdot 4\text{H}_2\text{O}$ | A  | 2012-056  | Venezuela           | <i>American Mineralogist</i> <b>98</b> (2013), 1906                                                                                     |                                                                                        |
| Rossite         | $\text{Ca}(\text{VO}_3)_2(\text{H}_2\text{O})_4$                                                          | G  | 1927      | USA                 | <i>Proceedings of the United States National Museum</i> <b>72</b> (1927), 1                                                             | <i>Canadian Mineralogist</i> <b>7</b> (1963), 713                                      |

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| Rösslerite               | $\text{Mg}(\text{AsO}_3\text{OH})(\text{H}_2\text{O})_6 \cdot \text{H}_2\text{O}$                                                             | G  | 1861      | Germany                          | <i>Jahresbericht der Wetterauischen Gesellschaft für die Gesamte Naturkunde zu Hanau</i> (1861), 32                                     | <i>Acta Crystallographica</i> <b>B29</b> (1973), 286           |
| Rossmannite              | $\square(\text{Al}_2\text{Li})\text{Al}_6(\text{Si}_6\text{O}_{18})(\text{BO}_3)_3(\text{OH})_3(\text{OH})$                                   | A  | 1996-018  | Czech Republic                   | <i>American Mineralogist</i> <b>83</b> (1998), 896                                                                                      | <i>Physics and Chemistry of Minerals</i> <b>44</b> (2017), 353 |
| Rossovskyite             | $\text{Fe}^{3+}\text{NbO}_4$                                                                                                                  | Rd | 2022 s.p. | Mongolia                         | <i>Physics and Chemistry of Minerals</i> <b>42</b> (2015), 825                                                                          |                                                                |
| Rostite                  | $\text{Al}(\text{SO}_4)(\text{OH}) \cdot 5\text{H}_2\text{O}$                                                                                 | Rd | 1988 s.p. | Czech Republic                   | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1979), 193                                                                           | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1988), 476  |
| Rotemite                 | $\text{Ca}_4\text{Cr}_2(\text{OH})_{12}\text{Cl}_2(\text{H}_2\text{O})_4$                                                                     | A  | 2024-058  | Israel                           | CNMNC Newsletter 82 - <i>Mineralogical Magazine</i> <b>88</b> (2024), 804; <i>European Journal of Mineralogy</i> <b>36</b> (2024), 1005 |                                                                |
| Roterbärite              | $\text{PdCuBiSe}_3$                                                                                                                           | A  | 2019-043  | Germany                          | <i>Mineralogy and Petrology</i> <b>114</b> (2020), 443                                                                                  |                                                                |
| Rotherkopfite            | $\text{KNa}_2(\text{Fe}^{2+}_{2.5}\text{Ti}_{1.5})\text{Fe}^{2+}(\text{Si}_4\text{O}_{12})_2$                                                 | A  | 2023-032a | Germany                          | <i>European Journal of Mineralogy</i> <b>36</b> (2024), 605                                                                             |                                                                |
| Rouaite                  | $\text{Cu}_2(\text{NO}_3)(\text{OH})_3$                                                                                                       | A  | 1999-010  | France                           | <i>Rivière Scientifique</i> <b>85</b> (2001), 3                                                                                         | <i>Zeitschrift für Kristallographie</i> <b>165</b> (1983), 127 |
| Roubaultite              | $\text{Cu}_2\text{O}_2(\text{UO}_2)_3(\text{CO}_3)_2(\text{OH})_2(\text{H}_2\text{O})_4$                                                      | A  | 1970-030  | Democratic Republic of the Congo | <i>Bulletin de la Société Française de Minéralogie et de Cristallographie</i> <b>93</b> (1970), 550                                     | <i>Inorganic Chemistry Frontiers</i> <b>7</b> (2020), 4197     |
| Roumaite                 | $(\text{Nb,Ti})(\text{Ca,Na},\square)_3(\text{Ca,REE})_4(\text{Si}_2\text{O}_7)_2(\text{OH})\text{F}_3$                                       | A  | 2008-024  | Guinea                           | <i>Canadian Mineralogist</i> <b>48</b> (2010), 17                                                                                       |                                                                |
| Rouseite                 | $\text{Pb}_2\text{Mn}^{2+}(\text{AsO}_3)_2 \cdot 2\text{H}_2\text{O}$                                                                         | A  | 1984-071  | Sweden                           | <i>American Mineralogist</i> <b>71</b> (1986), 1034                                                                                     |                                                                |
| Routhierite              | $\text{TiCuHg}_2\text{As}_2\text{S}_6$                                                                                                        | A  | 1973-030  | France                           | <i>Bulletin de la Société Française de Minéralogie et de Cristallographie</i> <b>97</b> (1974), 48                                      | <i>European Journal of Mineralogy</i> <b>26</b> (2014), 163    |
| Rouvilleite              | $\text{Na}_3\text{Ca}_2(\text{CO}_3)_3\text{F}$                                                                                               | Rd | 2022 s.p. | Canada                           | <i>Canadian Mineralogist</i> <b>29</b> (1991), 107                                                                                      | <i>Soviet Physics - Crystallography</i> <b>36</b> (1991), 14   |
| Rouxelite                | $\text{Cu}_2\text{HgPb}_{22}\text{Sb}_{28}\text{S}_{64}(\text{O,S})_2$                                                                        | A  | 2002-062  | Italy                            | <i>Canadian Mineralogist</i> <b>43</b> (2005), 919                                                                                      | <i>European Journal of Mineralogy</i> <b>37</b> (2025), 591    |
| Roweite                  | $\text{Ca}_2\text{Mn}^{2+}_2\text{B}_4\text{O}_7(\text{OH})_6$                                                                                | G  | 1937      | USA                              | <i>American Mineralogist</i> <b>22</b> (1937), 301                                                                                      | <i>American Mineralogist</i> <b>59</b> (1974), 60              |
| Rowlandite-(Y)           | $\text{Y}_4\text{Fe}^{2+}(\text{Si}_2\text{O}_7)_2\text{F}_2$                                                                                 | Rn | 1987 s.p. | USA                              | <i>American Journal of Science</i> <b>42</b> (1891), 430                                                                                | <i>Canadian Mineralogist</i> <b>6</b> (1961), 576              |
| Rowleyite                | $[\text{Na}(\text{NH}_4,\text{K})_9\text{Cl}_4][\text{V}^{5+,4+}_2(\text{P,As})\text{O}_8]_6 \cdot n[\text{H}_2\text{O,Na,NH}_4,\text{K,Cl}]$ | A  | 2016-037  | USA                              | <i>American Mineralogist</i> <b>102</b> (2017), 1037                                                                                    |                                                                |
| Roxbyite                 | $\text{Cu}_9\text{S}_5$                                                                                                                       | A  | 1986-010  | Australia                        | <i>Mineralogical Magazine</i> <b>52</b> (1988), 323                                                                                     | <i>Canadian Mineralogist</i> <b>50</b> (2012), 423             |
| Roymillerite             | $\text{Pb}_{24}\text{Mg}_9(\text{Si}_{10}\text{O}_{28})(\text{CO}_3)_{10}(\text{BO}_3)(\text{SiO}_4)(\text{OH})_{13}\text{O}_5$               | A  | 2016-061  | Namibia                          | <i>Physics and Chemistry of Minerals</i> <b>44</b> (2017), 685                                                                          |                                                                |
| Rozenite                 | $\text{Fe}^{2+}(\text{SO}_4)(\text{H}_2\text{O})_4$                                                                                           | Rd | 1963 s.p. | Poland                           | <i>Bulletin de l'Académie Polonaise des Sciences, Série des Sciences Géologiques et Géographiques</i> <b>8</b> (1960), 97               | <i>American Mineralogist</i> <b>108</b> (2023), 1080           |
| Rozhdestvenskayaite-(Zn) | $\text{Ag}_6(\text{Ag}_4\text{Zn}_2)\text{Sb}_4\text{S}_{13}$                                                                                 | Rd | 2019 s.p. | Mexico                           | <i>European Journal of Mineralogy</i> <b>30</b> (2018), 1163                                                                            |                                                                |
| Ruffite                  | $\text{Ca}_2\text{Cu}(\text{AsO}_4)_2(\text{H}_2\text{O})_2$                                                                                  | A  | 2009-077  | Chile                            | <i>Canadian Mineralogist</i> <b>49</b> (2011), 877                                                                                      |                                                                |
| Ruarsite                 | $\text{RuAsS}$                                                                                                                                | A  | 1980 s.p. | China                            | <i>Kexue Tongbao</i> <b>24</b> (1979), 310                                                                                              |                                                                |
| Rubincine                | $\text{Rb}(\text{AlSi}_3\text{O}_8)$                                                                                                          | A  | 1996-058  | Italy                            | <i>American Mineralogist</i> <b>83</b> (1998), 1335                                                                                     | <i>Mineralogical Magazine</i> <b>65</b> (2001), 523            |

|                   |                                                                                                                                       |    |           |                                        |                                                                                                                                        |                                                                   |
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| Rubinite          | $\text{Ca}_3\text{Ti}^{3+}_2(\text{SiO}_4)_3$                                                                                         | A  | 2016-110  | Italy (meteorite) / Mexico (meteorite) | <i>American Mineralogist</i> <b>110</b> (2025), 489                                                                                    | <i>Mineralogical Magazine</i> <b>89</b> (2025), 725               |
| Rucklidgeite      | $\text{PbBi}_2\text{Te}_4$                                                                                                            | A  | 1975-029  | Russia                                 | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>106</b> (1977), 62                                                       |                                                                   |
| Rudabányaite      | $(\text{Ag}_2\text{Hg}_2)(\text{AsO}_4)\text{Cl}$                                                                                     | A  | 2016-088  | Hungary                                | <i>European Journal of Mineralogy</i> <b>31</b> (2019), 537                                                                            |                                                                   |
| Rudashevskyite    | $(\text{Fe},\text{Zn})\text{S}$                                                                                                       | A  | 2005-017  | Azerbaijan (meteorite)                 | <i>American Mineralogist</i> <b>93</b> (2008), 902                                                                                     |                                                                   |
| Rudenkoite        | $\text{Sr}_3\text{Al}_{3.5}\text{Si}_{3.5}\text{O}_{10}(\text{OH},\text{O})_8\text{Cl}_2 \cdot \text{H}_2\text{O}$                    | A  | 2003-060  | Russia                                 | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>133(3)</b> (2004), 37                                                  |                                                                   |
| Rüdingerite       | $\text{Mn}^{2+}_2\text{V}^{5+}\text{As}^{5+}\text{O}_7(\text{H}_2\text{O})_2$                                                         | A  | 2016-054a | Switzerland / Italy                    | <i>Minerals</i> <b>10</b> (2020), 960                                                                                                  |                                                                   |
| Rudolfhermannite  | $\text{Fe}^{3+}_2(\text{Te}^{4+}\text{O}_3)_3(\text{H}_2\text{O})$                                                                    | A  | 2021-099  | Russia                                 | CNMNC Newsletter 66 - <i>Mineralogical Magazine</i> <b>86</b> (2022), 359; <i>European Journal of Mineralogy</i> <b>34</b> (2022), 253 |                                                                   |
| Ruifrancoite      | $\text{Ca}_2(\square,\text{Mn})_2(\text{Fe}^{3+},\text{Mn},\text{Mg})_4\text{Be}_4(\text{PO}_4)_6(\text{OH})_6(\text{H}_2\text{O})_4$ | A  | 2005-061a | Brazil                                 | <i>Canadian Mineralogist</i> <b>45</b> (2007), 1263                                                                                    |                                                                   |
| Ruitenbergit      | $\text{Ca}_9\text{B}_{26}\text{O}_{34}(\text{OH})_{24}\text{Cl}_4(\text{H}_2\text{O})_9 \cdot 4\text{H}_2\text{O}$                    | A  | 1992-011  | Canada                                 | <i>Canadian Mineralogist</i> <b>31</b> (1993), 795                                                                                     | <i>Canadian Mineralogist</i> <b>32</b> (1994), 1                  |
| Ruizhongite       | $(\text{Ag}_2\square)\text{Pb}_3\text{Ge}_2\text{S}_8$                                                                                | A  | 2022-066  | China                                  | <i>American Mineralogist</i> <b>108</b> (2023), 1818                                                                                   |                                                                   |
| Ruizite           | $\text{Ca}_2\text{Mn}^{3+}_2\text{Si}_4\text{O}_{11}(\text{OH})_4(\text{H}_2\text{O})_2$                                              | A  | 1977-007  | USA                                    | <i>Mineralogical Magazine</i> <b>41</b> (1977), 429                                                                                    | <i>Acta Crystallographica</i> <b>E72</b> (2016), 959              |
| Rumoiite          | $\text{AuSn}_2$                                                                                                                       | A  | 2018-161  | Japan                                  | <i>Journal of Mineralogical and Petrological Sciences</i> <b>116</b> (2021), 263                                                       |                                                                   |
| Rumseyite         | $[\text{Pb}_2\text{OF}]\text{Cl}$                                                                                                     | A  | 2011-091  | United Kingdom                         | <i>Mineralogical Magazine</i> <b>76</b> (2012), 1247                                                                                   |                                                                   |
| Rundqvistite-(Ce) | $\text{Na}_3(\text{Sr}_3\text{Ce})[\text{Zn}_2\text{Si}_6\text{O}_{24}]$                                                              | A  | 2023-043  | Tajikistan                             | <i>Mineralogical Magazine</i> <b>88</b> (2024), 594                                                                                    |                                                                   |
| Rusakovite        | $(\text{Fe},\text{Al})_5(\text{VO}_4)_2(\text{OH})_9 \cdot 3\text{H}_2\text{O}$                                                       | A  | 1962 s.p. | Kazakhstan                             | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>89</b> (1960), 440                                                       |                                                                   |
| Rusinovite        | $\text{Ca}_{10}(\text{Si}_2\text{O}_7)_3\text{Cl}_2$                                                                                  | A  | 2010-072  | Russia                                 | <i>European Journal of Mineralogy</i> <b>23</b> (2011), 837                                                                            | <i>Minerals</i> <b>8</b> (2018), 399                              |
| Russellite        | $\text{Bi}_2\text{WO}_6$                                                                                                              | G  | 1938      | United Kingdom                         | <i>Mineralogical Magazine</i> <b>25</b> (1938), 41                                                                                     | <i>Mineralogical Magazine</i> <b>56</b> (1992), 399               |
| Russoite          | $(\text{NH}_4)\text{ClAs}_2\text{O}_3(\text{H}_2\text{O})_{0.5}$                                                                      | A  | 2015-105  | Italy                                  | <i>Mineralogical Magazine</i> <b>83</b> (2019), 89                                                                                     |                                                                   |
| Rustenburgite     | $\text{Pt}_3\text{Sn}$                                                                                                                | A  | 1974-040  | South Africa                           | <i>Canadian Mineralogist</i> <b>13</b> (1975), 146                                                                                     |                                                                   |
| Rustumite         | $\text{Ca}_{10}(\text{Si}_2\text{O}_7)_2(\text{SiO}_4)(\text{OH})_2\text{Cl}_2$                                                       | A  | 1964-004  | United Kingdom                         | <i>Mineralogical Magazine</i> <b>34</b> (1965), 1                                                                                      | <i>American Mineralogist</i> <b>98</b> (2013), 493                |
| Ruthenarsenite    | $(\text{Ru},\text{Ni})\text{As}$                                                                                                      | A  | 1973-020  | Papua New Guinea                       | <i>Canadian Mineralogist</i> <b>12</b> (1974), 280                                                                                     |                                                                   |
| Rutheniridosmine  | $(\text{Ir},\text{Os},\text{Ru})$                                                                                                     | Rd | 1973 s.p. | Japan                                  | <i>Canadian Mineralogist</i> <b>12</b> (1973), 104                                                                                     | <i>Canadian Mineralogist</i> <b>29</b> (1991), 231                |
| Ruthenium         | $\text{Ru}$                                                                                                                           | A  | 1974-013  | Japan                                  | <i>Mineralogical Journal</i> <b>7</b> (1974), 438                                                                                      |                                                                   |
| Rutherfordine     | $(\text{UO}_2)(\text{CO}_3)$                                                                                                          | A  | 1962 s.p. | Tanzania                               | <i>Centralblatt für Mineralogie, Geologie und Paläontologie</i> (1906), 761                                                            | <i>Canadian Mineralogist</i> <b>37</b> (1999), 929                |
| Rutile            | $\text{TiO}_2$                                                                                                                        | G  | 1803      | Spain                                  | Handbuch der Mineralogie, Vol. 1. Crusius, Leipzig (1803), 305                                                                         | <i>Zeitschrift für Kristallographie</i> <b>194</b> (1991), 305    |
| Ryabchikovite     | $\text{CuMgSi}_2\text{O}_6$                                                                                                           | A  | 2021-011  | Russia                                 | <i>American Mineralogist</i> <b>108</b> (2023), 1399                                                                                   |                                                                   |
| Rynersonite       | $\text{CaTa}_2\text{O}_6$                                                                                                             | A  | 1974-058  | USA                                    | <i>American Mineralogist</i> <b>63</b> (1978), 709                                                                                     | <i>Japanese Journal of Applied Physics</i> <b>47</b> (2008), 7716 |
| Saamite           | $\text{Ba}\square\text{TiNbNa}_3\text{Ti}(\text{Si}_2\text{O}_7)_2\text{O}_2(\text{OH})_2(\text{H}_2\text{O})_2$                      | Rd | 2013-083  | Russia                                 | <i>Canadian Mineralogist</i> <b>52</b> (2014), 745                                                                                     |                                                                   |

|                  |                                                                                                                                                            |    |           |                                            |                                                                                                                                        |                                                                                                    |
|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----------|--------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
| Sabatierite      | $\text{TiCu}_6\text{Se}_4$                                                                                                                                 | A  | 1976-043  | Czech Republic                             | <i>Bulletin de Minéralogie</i> <b>101</b> (1978), 557                                                                                  | <i>Zeitschrift für Kristallographie</i> <b>181</b> (1987), 241                                     |
| Sabelliite       | $\text{Cu}_2\text{Zn}(\text{AsO}_4)(\text{OH})_3$                                                                                                          | A  | 1994-013  | Italy                                      | <i>European Journal of Mineralogy</i> <b>7</b> (1995), 1325                                                                            | <i>European Journal of Mineralogy</i> <b>7</b> (1995), 1331                                        |
| Sabieite         | $(\text{NH}_4)\text{Fe}^{3+}(\text{SO}_4)_2$                                                                                                               | A  | 1982-088  | South Africa                               | <i>Annals of the Geological Survey of South Africa</i> <b>17</b> (1983), 29                                                            | <i>Journal of Geosciences</i> <b>64</b> (2019), 149                                                |
| Sabinaite        | $\text{Na}_4\text{TiZr}_2\text{O}_4(\text{CO}_3)_4$                                                                                                        | A  | 1978-071  | Canada                                     | <i>Canadian Mineralogist</i> <b>19</b> (1980), 25                                                                                      | <i>Canadian Mineralogist</i> <b>34</b> (1996), 811                                                 |
| Sabugalite       | $\text{H}_{0.5}\text{Al}_{0.5}(\text{UO}_2)_2(\text{PO}_4)_2 \cdot 8\text{H}_2\text{O}$                                                                    | G  | 1951      | Portugal                                   | <i>American Mineralogist</i> <b>36</b> (1951), 671                                                                                     | <i>Physics and Chemistry of Minerals</i> <b>9</b> (1983), 23                                       |
| Saccoite         | $\text{Ca}_2\text{Mn}^{3+}_2\text{F}(\text{OH})_8 \cdot 0.5(\text{SO}_4)$                                                                                  | A  | 2019-056  | South Africa                               | <i>Mineralogical Magazine</i> <b>86</b> (2022), 814                                                                                    |                                                                                                    |
| Sachanbińskiite  | $\text{Mn}_2\text{Al}_3(\text{Si}_5\text{AlO}_{18})$                                                                                                       | Rd | 2022-109  | Poland                                     | CNMNC Newsletter 72 - <i>Mineralogical Magazine</i> <b>87</b> (2023), 512; <i>European Journal of Mineralogy</i> <b>35</b> (2023), 285 |                                                                                                    |
| Sacrofanite      | $(\text{Na}_{61}\text{K}_{19}\text{Ca}_{32})(\text{Si}_{84}\text{Al}_{84}\text{O}_{336})(\text{SO}_4)_{26}\text{Cl}_2\text{F}_6 \cdot 2\text{H}_2\text{O}$ | A  | 1979-058  | Italy                                      | <i>Neues Jahrbuch für Mineralogie Abhandlungen</i> <b>140</b> (1980), 102                                                              | <i>Microporous and Mesoporous Materials</i> <b>147</b> (2012), 318                                 |
| Sadanagaite      | $\text{NaCa}_2(\text{Mg}_3\text{Al}_2)(\text{Si}_5\text{Al}_3)\text{O}_{22}(\text{OH})_2$                                                                  | Rd | 2012 s.p. | Japan                                      | <i>European Journal of Mineralogy</i> <b>16</b> (2004), 177                                                                            | <i>Canadian Mineralogist</i> <b>46</b> (2008), 151                                                 |
| Saddlebackite    | $\text{Pb}_2\text{Bi}_2\text{Te}_2\text{S}_3$                                                                                                              | A  | 1994-051  | Australia                                  | <i>Australian Journal of Mineralogy</i> <b>3</b> (1997), 119                                                                           | <i>Acta Crystallographica</i> <b>B79</b> (2023), 482                                               |
| Safflorite       | $\text{CoAs}_2$                                                                                                                                            | G  | 1835      | Germany                                    | <i>Journal für Praktische Chemie</i> <b>4</b> (1835), 249                                                                              | <i>Acta Crystallographica</i> <b>E64</b> (2008), i62                                               |
| Sahamallite-(Ce) | $\text{Ce}_2\text{Mg}(\text{CO}_3)_4$                                                                                                                      | Rn | 1987 s.p. | USA                                        | <i>American Mineralogist</i> <b>38</b> (1953), 741                                                                                     | <i>Tschermaks Mineralogische und Petrographische Mitteilungen</i> <b>31</b> (1983), 39             |
| Sahlinite        | $\text{Pb}_{14}\text{O}_9(\text{AsO}_4)_2\text{Cl}_4$                                                                                                      | G  | 1934      | Sweden                                     | <i>Geologiska Föreningens i Stockholm Förhandlingar</i> <b>56</b> (1934), 493                                                          | <i>Mineralogical Magazine</i> <b>67</b> (2003), 15                                                 |
| Sailaufite       | $(\text{Ca}, \text{Na}, \square)_2\text{Mn}^{3+}_3\text{O}_2(\text{AsO}_4)_2(\text{CO}_3)(\text{H}_2\text{O})_2 \cdot \text{H}_2\text{O}$                  | A  | 2000-005  | Germany                                    | <i>European Journal of Mineralogy</i> <b>15</b> (2003), 555                                                                            |                                                                                                    |
| Sainfeldite      | $\text{Ca}_5(\text{AsO}_3\text{OH})_2(\text{AsO}_4)_2(\text{H}_2\text{O})_4$                                                                               | A  | 1963-018  | France                                     | <i>Bulletin de la Société Française de Minéralogie et de Cristallographie</i> <b>87</b> (1964), 169                                    | <i>Bulletin de la Société Française de Minéralogie et de Cristallographie</i> <b>95</b> (1972), 33 |
| Sakhaite         | $\text{Ca}_{48}\text{Mg}_{16}(\text{BO}_3)_{32}(\text{CO}_3)_{16}(\text{H}_2\text{O}, \text{HCl})_2$                                                       | Rd | 2021 s.p. | Russia                                     | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>95</b> (1966), 193                                                       | <i>American Mineralogist</i> <b>103</b> (2018), 1749                                               |
| Sakuraiite       | $(\text{Cu}, \text{Zn}, \text{Fe})_3(\text{In}, \text{Sn})\text{S}_4$                                                                                      | A  | 1965-017  | Japan                                      | <i>Chigaku Kenkyu (Earth Science Studies)</i> , Sakurai volume (1965), 1                                                               | <i>Canadian Mineralogist</i> <b>24</b> (1986), 405                                                 |
| Salammoniac      | $(\text{NH}_4)\text{Cl}$                                                                                                                                   | Rn | 2007 s.p. | Italy                                      | De Re Metallica Libri XII. Froben, Basel (1556)                                                                                        | <i>Acta Crystallographica</i> <b>A26</b> (1970), 295                                               |
| Saléeite         | $\text{Mg}(\text{UO}_2)_2(\text{PO}_4)_2(\text{H}_2\text{O})_{10}$                                                                                         | G  | 1932      | Democratic Republic of the Congo / Germany | <i>Bulletin de la Société Belge de Géologie</i> <b>42</b> (1932), 96                                                                   | <i>European Journal of Mineralogy</i> <b>28</b> (2016), 663                                        |
| Salesite         | $\text{Cu}(\text{IO}_3)(\text{OH})$                                                                                                                        | G  | 1939      | Chile                                      | <i>American Mineralogist</i> <b>24</b> (1939), 388                                                                                     | <i>American Mineralogist</i> <b>63</b> (1978), 172                                                 |
| Salitotite       | $(\text{Li}, \text{Na})\text{Al}_3(\text{Si}_3\text{Al})\text{O}_{10}(\text{OH})_5$                                                                        | A  | 1990-018  | Spain                                      | <i>European Journal of Mineralogy</i> <b>6</b> (1994), 897                                                                             |                                                                                                    |
| Saltonseaite     | $\text{K}_3\text{NaMnCl}_6$                                                                                                                                | A  | 2011-104  | USA                                        | <i>American Mineralogist</i> <b>98</b> (2013), 231                                                                                     |                                                                                                    |
| Salzburgite      | $\text{Cu}_{1.6}\text{Pb}_{1.6}\text{Bi}_{6.4}\text{S}_{12}$                                                                                               | A  | 2000-044  | Austria                                    | <i>Canadian Mineralogist</i> <b>43</b> (2005), 909                                                                                     | <i>Canadian Mineralogist</i> <b>44</b> (2006), 189                                                 |
| Samaniite        | $\text{Cu}_2\text{Fe}_5\text{Ni}_2\text{S}_8$                                                                                                              | A  | 2007-038  | Japan                                      | <i>Journal of Mineralogical and Petrological Sciences</i> <b>106</b> (2011), 204                                                       |                                                                                                    |

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| Samarskite-(Y)  | $\text{YFe}^{3+}\text{Nb}_2\text{O}_8$                                                                                                                  | Rd | 2019 s.p. | Russia              | <i>Annalen der Physik und Chemie</i> <b>71</b> (1847), 157                                                                             | <i>Physics and Chemistry of Minerals</i> <b>46</b> (2019), 727                     |
| Samarskite-(Yb) | $\text{YbNbO}_4$                                                                                                                                        | Q  | 2022 s.p. | USA                 | <i>Canadian Mineralogist</i> <b>44</b> (2006), 1119                                                                                    |                                                                                    |
| Samfowlerite    | $\text{Ca}_{14}\text{Mn}^{2+}_3\text{Zn}_2\text{Be}_2\text{Be}_6\text{Si}_{14}\text{O}_{52}(\text{OH})_6$                                               | A  | 1991-045  | USA                 | <i>Canadian Mineralogist</i> <b>32</b> (1994), 43                                                                                      |                                                                                    |
| Sampleite       | $\text{NaCaCu}_5(\text{PO}_4)_4\text{Cl}(\text{H}_2\text{O})_5$                                                                                         | G  | 1942      | Chile               | <i>American Mineralogist</i> <b>27</b> (1942), 586                                                                                     | <i>Zapiski Rossiyskogo Mineralogicheskogo Obshchestva</i> <b>152(5)</b> (2023), 83 |
| Samraite        | $\text{Ni}_2\text{P}_2\text{O}_7$                                                                                                                       | A  | 2021-029  | Israel              | CNMNC Newsletter 62 - <i>Mineralogical Magazine</i> <b>85</b> (2021), 634; <i>European Journal of Mineralogy</i> <b>33</b> (2021), 479 |                                                                                    |
| Samsonite       | $\text{Ag}_4\text{MnSb}_2\text{S}_6$                                                                                                                    | G  | 1910      | Germany             | <i>Centralblatt für Mineralogie, Geologie und Paläontologie</i> (1910), 331                                                            | <i>American Mineralogist</i> <b>92</b> (2007), 886                                 |
| Samuelsonite    | $\text{Ca}_9\text{Mn}^{2+}_4\text{Al}_2(\text{PO}_4)_{10}(\text{OH})_2$                                                                                 | A  | 1974-026  | USA                 | <i>American Mineralogist</i> <b>60</b> (1975), 957                                                                                     | <i>American Mineralogist</i> <b>62</b> (1977), 229                                 |
| Sanbornite      | $\text{BaSi}_2\text{O}_5$                                                                                                                               | G  | 1932      | USA                 | <i>American Mineralogist</i> <b>17</b> (1932), 161                                                                                     | <i>Zeitschrift für Kristallographie</i> <b>153</b> (1980), 33                      |
| Sanderite       | $\text{Mg}(\text{SO}_4)(\text{H}_2\text{O})_2$                                                                                                          | G  | 1952      | Germany             | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1952), 28                                                                           | <i>American Mineralogist</i> <b>94</b> (2009), 622                                 |
| Saneroite       | $\text{NaMn}^{2+}_5[\text{Si}_5\text{O}_{14}(\text{OH})](\text{VO}_3)(\text{OH})$                                                                       | A  | 1979-060  | Italy               | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1981), 161                                                                          | <i>European Journal of Mineralogy</i> <b>22</b> (2010), 393                        |
| Sangenaroite    | $\text{Ag}_8(\text{Sb}_{8-x}\text{As}_x)\text{S}_{16}$ (0 < x < 2)                                                                                      | A  | 2019-014  | Peru                | CNMNC Newsletter 50 - <i>Mineralogical Magazine</i> <b>83</b> (2019), 615; <i>European Journal of Mineralogy</i> <b>31</b> (2019), 847 |                                                                                    |
| Sanguite        | $\text{KCuCl}_3$                                                                                                                                        | A  | 2013-002  | Russia              | <i>Canadian Mineralogist</i> <b>53</b> (2015), 633                                                                                     | <i>ACS Omega</i> <b>3</b> (2018), 14021                                            |
| Sanidine        | $\text{K}(\text{AlSi}_3\text{O}_8)$                                                                                                                     | G  | 1808      | Germany             | <i>Mineralogische Studien über die Gebirge am Niederrhein</i> . Hermann, Frankfurt (1808), 24                                          | <i>European Journal of Mineralogy</i> <b>20</b> (2008), 183                        |
| Sanjuanite      | $\text{Al}_2(\text{PO}_4)(\text{SO}_4)(\text{OH})(\text{H}_2\text{O})_6 \cdot 3\text{H}_2\text{O}$                                                      | A  | 1966-043  | Argentina           | <i>American Mineralogist</i> <b>53</b> (1968), 1                                                                                       | <i>Canadian Mineralogist</i> <b>49</b> (2011), 835                                 |
| Sanmartinite    | $\text{Zn}(\text{WO}_4)$                                                                                                                                | G  | 1948      | Argentina           | <i>Notulae Naturae of the Academy of Natural Sciences of Philadelphia</i> <b>205</b> (1948), 1                                         | <i>European Journal of Mineralogy</i> <b>7</b> (1995), 1019                        |
| Sanrománite     | $\text{Na}_2\text{CaPb}_3(\text{CO}_3)_5$                                                                                                               | A  | 2006-009  | Chile               | <i>Neues Jahrbuch für Mineralogie Abhandlungen</i> <b>183</b> (2007), 117                                                              |                                                                                    |
| Santabarbaraite | $\text{Fe}^{3+}_3(\text{PO}_4)_2(\text{OH})_3 \cdot 5\text{H}_2\text{O}$                                                                                | A  | 2000-052  | Italy               | <i>European Journal of Mineralogy</i> <b>15</b> (2003), 185                                                                            | <i>Zapiski Rossiyskogo Mineralogicheskogo Obshchestva</i> <b>153(4)</b> (2024), 45 |
| Santaclaraite   | $\text{CaMn}^{2+}_4\text{Si}_5\text{O}_{14}(\text{OH})_2(\text{H}_2\text{O})$                                                                           | A  | 1979-005  | USA                 | <i>American Mineralogist</i> <b>69</b> (1984), 200                                                                                     | <i>American Mineralogist</i> <b>66</b> (1981), 154                                 |
| Santafeite      | $(\text{Ca}, \text{Sr}, \text{Na})_3(\text{Mn}^{2+}, \text{Fe}^{3+})_2\text{Mn}^{4+}_2(\text{VO}_4)_4(\text{OH}, \text{O})_5 \cdot 2\text{H}_2\text{O}$ | G  | 1958      | USA                 | <i>American Mineralogist</i> <b>43</b> (1958), 677                                                                                     | <i>Mineralogical Magazine</i> <b>50</b> (1986), 299                                |
| Santanaite      | $\text{Pb}_{11}\text{CrO}_{16}$                                                                                                                         | A  | 1971-035  | Chile               | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1972), 455                                                                          |                                                                                    |
| Santarosaite    | $\text{CuB}_2\text{O}_4$                                                                                                                                | A  | 2007-013  | Chile               | <i>Neues Jahrbuch für Mineralogie Abhandlungen</i> <b>185</b> (2008), 27                                                               |                                                                                    |
| Santite         | $\text{KB}_5\text{O}_6(\text{OH})_4 \cdot 2\text{H}_2\text{O}$                                                                                          | A  | 1969-044  | Italy               | <i>Contributions to Mineralogy and Petrology</i> <b>27</b> (1970), 159                                                                 | <i>Canadian Journal of Physics</i> <b>48</b> (1970), 1091                          |
| Saponite        | $(\text{Ca}, \text{Na})_{0.3}(\text{Mg}, \text{Fe})_3(\text{Si}, \text{Al})_4\text{O}_{10}(\text{OH})_2 \cdot 4\text{H}_2\text{O}$                      | G  | 1840      | United Kingdom      | <i>Kungliga Svenska Vetenskaps-Akademiens Handlingar</i> (1840), 153                                                                   | <i>Minerals</i> <b>11</b> (2021), 112                                              |
| Sapozhnikovite  | $\text{Na}_8(\text{Al}_6\text{Si}_6\text{O}_{24})(\text{HS})_2$                                                                                         | A  | 2021-030  | Russia              | <i>Mineralogical Magazine</i> <b>86</b> (2022), 49                                                                                     | <i>Journal of Solid State Chemistry</i> <b>323</b> (2023), 124067                  |
| Sapphirine      | $\text{Mg}_4(\text{Mg}_3\text{Al}_9)\text{O}_4[\text{Si}_3\text{Al}_9\text{O}_{36}]$                                                                    | G  | 1819      | Denmark (Greenland) | <i>Göttingische Gelehrte Anzeigen</i> <b>3</b> (1819), 1994                                                                            | <i>Contributions to Mineralogy and Petrology</i> <b>68</b> (1979), 357             |

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|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----------|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| Sarabauite     | $\text{Sb}_4\text{S}_6 \cdot \text{CaSb}_6\text{O}_{10}$                                                                                              | A  | 1976-035  | Malaysia     | <i>American Mineralogist</i> <b>63</b> (1978), 715                                                                                                       | <i>Acta Crystallographica</i> <b>B34</b> (1978), 3569                                       |
| Saranchinaite  | $\text{Na}_2\text{Cu}(\text{SO}_4)_2$                                                                                                                 | A  | 2015-019  | Russia       | <i>Mineralogical Magazine</i> <b>82</b> (2018), 257                                                                                                      | <i>Crystal Growth &amp; Design</i> <b>19</b> (2019), 1233                                   |
| Saranovskite   | $\text{SrCaFe}^{2+}_2(\text{Cr}_4\text{Ti}_2)\text{Ti}_{12}\text{O}_{38}$                                                                             | A  | 2020-015  | Russia       | <i>Physics and Chemistry of Minerals</i> <b>47</b> (2020), 49                                                                                            |                                                                                             |
| Sarcolite      | $\text{Na}_4\text{Ca}_{12}\text{Al}_8\text{Si}_{12}\text{O}_{46}(\text{SiO}_4, \text{PO}_4)(\text{OH}, \text{H}_2\text{O})_4(\text{CO}_3, \text{Cl})$ | G  | 1807      | Italy        | <i>Annales du Muséum d'Histoire Naturelle</i> <b>9</b> (1807), 241                                                                                       | <i>Tschermaks Mineralogische und Petrographische Mitteilungen</i> <b>24</b> (1977), 1       |
| Sarcopside     | $\text{Fe}^{2+}_3(\text{PO}_4)_2$                                                                                                                     | G  | 1868      | Poland       | <i>Zeitschrift der Deutschen Geologischen Gesellschaft</i> <b>20</b> (1868), 245                                                                         | <i>American Mineralogist</i> <b>57</b> (1972), 24                                           |
| Sardashtite    | $\text{Ag}_9\text{Cu}_{2.5}\text{Pb}_{41}\text{Sb}_{36.5}\text{As}_7\text{S}_{112}$                                                                   | A  | 2022-140  | Iran         | CNMNC Newsletter 72 - <i>Mineralogical Magazine</i> <b>87</b> (2023), 512; <i>European Journal of Mineralogy</i> <b>35</b> (2023), 285                   |                                                                                             |
| Sardignaitite  | $\text{BiMo}_2\text{O}_7(\text{OH})(\text{H}_2\text{O})_2$                                                                                            | A  | 2008-040  | Italy        | <i>Mineralogy and Petrology</i> <b>100</b> (2010), 17                                                                                                    |                                                                                             |
| Sarkinite      | $\text{Mn}^{2+}_2(\text{AsO}_4)(\text{OH})$                                                                                                           | G  | 1885      | Sweden       | <i>Geologiska Föreningens i Stockholm Förhandlingar</i> <b>7</b> (1885), 724                                                                             | <i>Zeitschrift für Anorganische und Allgemeine Chemie</i> <b>628</b> (2002), 357            |
| Sarmientite    | $\text{Fe}^{3+}_2(\text{AsO}_4)(\text{SO}_4)(\text{OH})(\text{H}_2\text{O})_5$                                                                        | G  | 1941      | Argentina    | <i>Notulae Naturae of the Academy of Natural Sciences of Philadelphia</i> (1941), 92                                                                     | <i>Mineralogical Magazine</i> <b>78</b> (2014), 347                                         |
| Sarrabusite    | $\text{Pb}_5\text{CuCl}_4(\text{SeO}_3)_4$                                                                                                            | A  | 1997-046a | Italy        | <i>Acta Crystallographica</i> <b>B68</b> (2012), 15                                                                                                      | <i>Mineralogy and Petrology</i> <b>117</b> (2023), 281                                      |
| Sarrochite     | $[\text{Ca}_4(\text{H}_2\text{O})_{38}][\text{Mo}_8\text{P}_2\text{Fe}^{3+}_3\text{O}_{37}(\text{OH})]$                                               | A  | 2021-116  | Italy        | CNMNC Newsletter 67 - <i>Mineralogical Magazine</i> <b>86</b> (2022), 849; <i>European Journal of Mineralogy</i> <b>34</b> (2022), 359                   |                                                                                             |
| Sartorite      | $\text{PbAs}_2\text{S}_4$                                                                                                                             | G  | 1868      | Switzerland  | <i>A System of Mineralogy</i> , 5th ed. Wiley, New York (1868), 87                                                                                       | <i>American Mineralogist</i> <b>88</b> (2003), 450                                          |
| Sarvodaite     | $\text{Al}_2(\text{SO}_4)_3(\text{H}_2\text{O})_5$                                                                                                    | A  | 2023-073  | Tajikistan   | CNMNC Newsletter 76 - <i>Mineralogical Magazine</i> <b>88</b> (2024), 105; <i>European Journal of Mineralogy</i> <b>35</b> (2023), 1073                  | <a href="https://doi.org/10.1180/mgm.2025.10165">https://doi.org/10.1180/mgm.2025.10165</a> |
| Saryarkite-(Y) | $\text{Ca}(\text{Y}, \text{Th})\text{Al}_5(\text{SiO}_4)_2(\text{PO}_4)_2(\text{OH})_7 \cdot 6\text{H}_2\text{O}$                                     | Rn | 1987 s.p. | Kazakhstan   | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>93</b> (1964), 147                                                                         |                                                                                             |
| Sasaite        | $\text{Al}_6(\text{PO}_4)_5(\text{OH})_3 \cdot 36\text{H}_2\text{O}$                                                                                  | A  | 1977-033  | South Africa | <i>Mineralogical Magazine</i> <b>42</b> (1978), 401                                                                                                      |                                                                                             |
| Sassite        | $\text{Ti}^{3+}_2\text{Ti}^{4+}\text{O}_5$                                                                                                            | A  | 2022-014  | Israel       | <i>Materials</i> <b>16</b> (2023), 7578                                                                                                                  |                                                                                             |
| Sassolite      | $\text{B}(\text{OH})_3$                                                                                                                               | G  | 1808      | Italy        | Mineralogische Tabellen mit Rücksicht auf die neuesten Entdeckungen ausgearbeitet und mit erläuternden Anmerkungen versehen. Rottmann, Berlin (1808), 75 | <i>Acta Crystallographica</i> <b>B42</b> (1986), 545                                        |
| Satimolite     | $\text{KNa}_2(\text{Al}_5\text{Mg}_2)[\text{B}_{12}\text{O}_{18}(\text{OH})_{12}](\text{OH})_6\text{Cl}_4(\text{H}_2\text{O})_4$                      | A  | 1967-023  | Kazakhstan   | <i>Trudy Mineralogicheskogo Muzeya Akademii Nauk SSSR</i> <b>19</b> (1969), 121                                                                          | <i>Mineralogical Magazine</i> <b>82</b> (2018), 1033                                        |
| Satpaevite     | $\text{Al}_{12}(\text{V}^{4+}, \text{V}^{5+})_8\text{O}_{37} \cdot 30\text{H}_2\text{O}$ (?)                                                          | Q  | 1959      | Kazakhstan   | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>88</b> (1959), 157                                                                         |                                                                                             |
| Satterlyite    | $(\text{Fe}^{2+}, \text{Mg}, \text{Fe}^{3+})_{12}(\text{PO}_3\text{OH})(\text{PO}_4)_5(\text{OH}, \text{O})_6$                                        | A  | 1976-056  | Canada       | <i>Canadian Mineralogist</i> <b>16</b> (1978), 411                                                                                                       | <i>European Journal of Mineralogy</i> <b>14</b> (2002), 127                                 |
| Sauconite      | $\text{Na}_{0.3}\text{Zn}_3(\text{Si}, \text{Al})_4\text{O}_{10}(\text{OH})_2 \cdot 4\text{H}_2\text{O}$                                              | G  | 1875      | USA          | <i>Pennsylvania Geological Survey</i> <b>2</b> (1875), 1                                                                                                 | <i>American Mineralogist</i> <b>36</b> (1951), 795                                          |

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| Savelievaite                | $\text{Mg}_2\text{Cr}^{3+}\text{O}_2(\text{BO}_3)$                                | A  | 2021-051  | Russia                           | <i>Mineralogical Magazine</i> <b>88</b> (2024), 430                                                                                  |                                                                            |
| Sayrite                     | $\text{Pb}_2(\text{UO}_2)_5\text{O}_6(\text{OH})_2(\text{H}_2\text{O})_4$         | A  | 1982-050  | Democratic Republic of the Congo | <i>Bulletin de Minéralogie</i> <b>106</b> (1983), 299                                                                                | <i>Zeitschrift für Kristallographie</i> <b>234</b> (2019), 733             |
| Sazhinite-(Ce)              | $\text{Na}_3\text{CeSi}_6\text{O}_{15}(\text{H}_2\text{O})_2$                     | Rn | 1987 s.p. | Russia                           | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>103</b> (1974), 338                                                    | <i>Microchimica Acta</i> <b>145</b> (2004), 139                            |
| Sazhinite-(La)              | $\text{Na}_3\text{LaSi}_6\text{O}_{15}(\text{H}_2\text{O})_2$                     | A  | 2002-042a | Namibia                          | <i>Mineralogical Magazine</i> <b>70</b> (2006), 405                                                                                  |                                                                            |
| Sazykinaite-(Y)             | $\text{Na}_5\text{YZrSi}_6\text{O}_{18}(\text{H}_2\text{O})_6$                    | A  | 1992-031  | Russia                           | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>122(5)</b> (1993), 76                                                | <i>Soviet Physics - Crystallography</i> <b>37</b> (1992), 845              |
| Sbacchiite                  | $\text{Ca}_2\text{AlF}_7$                                                         | A  | 2017-097  | Italy                            | <i>European Journal of Mineralogy</i> <b>31</b> (2019), 153                                                                          |                                                                            |
| Sborgite                    | $\text{NaB}_5\text{O}_6(\text{OH})_4(\text{H}_2\text{O})_3$                       | G  | 1957      | Italy                            | <i>Atti dell'Accademia Nazionale dei Lincei, Classe di Scienze Fisiche, Matematiche e Naturali, Serie VIII</i> <b>22</b> (1957), 519 | <i>Zeitschrift für Naturforschung</i> <b>45b</b> (1990), 1155              |
| Scacchite                   | $\text{MnCl}_2$                                                                   | G  | 1869      | Italy                            | <i>Tableau Minéralogique</i> . Dunod, Paris (1869), 70.                                                                              | <i>Zeitschrift für Kristallographie</i> <b>192</b> (1990), 147             |
| Scainiite                   | $\text{Pb}_{14}\text{Sb}_{30}\text{S}_{54}\text{O}_5$                             | A  | 1996-014  | Italy                            | <i>European Journal of Mineralogy</i> <b>11</b> (1999), 949                                                                          | <i>European Journal of Mineralogy</i> <b>12</b> (2000), 835                |
| Scandiobabingtonite         | $\text{Ca}_2\text{Fe}^{2+}\text{ScSi}_5\text{O}_{14}(\text{OH})$                  | A  | 1993-012  | Italy                            | <i>American Mineralogist</i> <b>83</b> (1998), 1330                                                                                  | <i>Minerals</i> <b>12</b> (2022), 333                                      |
| Scandio-fluoro-eckermannite | $\text{NaNa}_2(\text{Mg}_4\text{Sc})\text{Si}_8\text{O}_{22}\text{F}_2$           | A  | 2024-002  | China                            | <i>Chinese Journal of Geology</i> <b>59</b> (2024), 1466                                                                             | <i>American Mineralogist</i> <b>111</b> (2026), 277                        |
| Scandio-winchite            | $\square(\text{NaCa})(\text{Mg}_4\text{Sc})\text{Si}_8\text{O}_{22}(\text{OH})_2$ | A  | 2022-009  | Poland                           | <i>American Mineralogist</i> <b>109</b> (2024), 940                                                                                  |                                                                            |
| Scarbroite                  | $\text{Al}_5(\text{CO}_3)(\text{OH})_{13}\cdot 5\text{H}_2\text{O}$               | G  | 1829      | United Kingdom                   | <i>Philosophical Magazine</i> <b>5</b> (1829), 178                                                                                   | <i>Mineralogical Magazine</i> <b>43</b> (1980), 615                        |
| Scawtite                    | $\text{Ca}_7(\text{Si}_3\text{O}_9)_2(\text{CO}_3)(\text{H}_2\text{O})_2$         | G  | 1930      | United Kingdom                   | <i>Mineralogical Magazine</i> <b>22</b> (1930), 222                                                                                  | <i>Canadian Mineralogist</i> <b>43</b> (2005), 1489                        |
| Scenicite                   | $[(\text{UO}_2)(\text{H}_2\text{O})_2(\text{SO}_4)]_2\cdot 3\text{H}_2\text{O}$   | A  | 2021-057  | USA                              | <i>Mineralogical Magazine</i> <b>86</b> (2022), 743                                                                                  |                                                                            |
| Schachnerite                | $\text{Ag}_{1.1}\text{Hg}_{0.9}$                                                  | A  | 1971-055  | Germany                          | <i>Neues Jahrbuch für Mineralogie Abhandlungen</i> <b>117</b> (1972), 1                                                              | <i>Mineralogical Magazine</i> <b>51</b> (1987), 318                        |
| Schafarzikite               | $\text{Fe}^{2+}\text{Sb}^{3+}_2\text{O}_4$                                        | G  | 1921      | Slovakia                         | <i>Zeitschrift für Kristallographie</i> <b>56</b> (1921), 198                                                                        | <i>European Journal of Mineralogy</i> <b>19</b> (2007), 419                |
| Schäferite                  | $(\text{NaCa}_2)\text{Mg}_2(\text{VO}_4)_3$                                       | A  | 1997-048  | Germany                          | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1999), 123                                                                        |                                                                            |
| Schairerite                 | $\text{Na}_{21}(\text{SO}_4)_7\text{ClF}_6$                                       | G  | 1931      | USA                              | <i>American Mineralogist</i> <b>16</b> (1931), 133                                                                                   | <i>Symmetry</i> <b>15</b> (2023), 1871                                     |
| Schallerite                 | $\text{Mn}^{2+}_{16}\text{As}^{3+}_3\text{Si}_{12}\text{O}_{36}(\text{OH})_{17}$  | G  | 1925      | USA                              | <i>American Mineralogist</i> <b>10</b> (1925), 9                                                                                     | <i>Yamaguchi University, College of Arts Bulletin</i> <b>26</b> (1992), 51 |
| Schapbachite                | $\text{Ag}_{0.4}\text{Pb}_{0.2}\text{Bi}_{0.4}\text{S}$                           | Rd | 1982 s.p. | Germany                          | <i>Das Mohs'sche Mineralsystem</i> . Gerold, Wien (1853), 118                                                                        | <i>Canadian Mineralogist</i> <b>48</b> (2010), 441                         |
| Schaurteite                 | $\text{Ca}_3\text{Ge}(\text{SO}_4)_2(\text{OH})_6(\text{H}_2\text{O})_3$          | A  | 1988 s.p. | Namibia                          | <i>Festschrift Dr. Werner Schaurte</i> . Bauer & Schaurte, Neuss (1967), 33                                                          | <i>Acta Crystallographica</i> <b>E69</b> (2013), i6                        |
| Scheelite                   | $\text{Ca}(\text{WO}_4)$                                                          | G  | 1821      | Sweden                           | <i>Handbuch der Oryktognosie</i> . Mohr & Winter, Heidelberg (1821), 594                                                             | <i>Journal of Physics and Chemistry of Solids</i> <b>46</b> (1985), 253    |
| Schertelite                 | $(\text{NH}_4)_2\text{Mg}(\text{PO}_3\text{OH})_2(\text{H}_2\text{O})_4$          | G  | 1902      | Australia                        | <i>Chemical News and Journal of Industrial Science</i> <b>85</b> (1902), 181                                                         | <i>Acta Crystallographica</i> <b>B28</b> (1972), 683                       |
| Scheuchzerite               | $\text{NaMn}^{2+}_9\text{Si}_9\text{V}^{5+}\text{O}_{28}(\text{OH})_4$            | A  | 2004-044  | Switzerland                      | <i>American Mineralogist</i> <b>91</b> (2006), 937                                                                                   |                                                                            |
| Schiavinatoite              | $\text{Nb}(\text{BO}_4)$                                                          | A  | 1999-051  | Madagascar                       | <i>European Journal of Mineralogy</i> <b>13</b> (2001), 159                                                                          |                                                                            |

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|-------------------|------------------------------------------------------------------------------------------------------------------------------|----|-----------|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
| Schieffelinite    | $\text{Pb}_{10}\text{Te}^{6+}_6\text{O}_{20}(\text{OH})_{14}(\text{SO}_4)(\text{H}_2\text{O})_5$                             | A  | 1979-043  | USA                              | <i>Mineralogical Magazine</i> <b>43</b> (1980), 771                                                                                                   | <i>American Mineralogist</i> <b>97</b> (2012), 212                                     |
| Schindlerite      | $\{(\text{NH}_4)_4\text{Na}_2(\text{H}_2\text{O})_{10}\}\{\text{V}_{10}\text{O}_{28}\}$                                      | Rd | 2015 s.p. | USA                              | <i>Canadian Mineralogist</i> <b>51</b> (2013), 297                                                                                                    | <i>Canadian Mineralogist</i> <b>54</b> (2016), 555                                     |
| Schizolite        | $\text{NaCaMnSi}_3\text{O}_8(\text{OH})$                                                                                     | Rn | 2013-067  | South Africa                     | <i>Mineralogical Magazine</i> <b>83</b> (2019), 473                                                                                                   | <i>Mineralogical Magazine</i> <b>85</b> (2021), 444                                    |
| Schlegelite       | $\text{Bi}_7\text{O}_4(\text{MoO}_4)_2(\text{AsO}_4)_3$                                                                      | A  | 2003-051  | Germany                          | <i>European Journal of Mineralogy</i> <b>18</b> (2006), 803                                                                                           |                                                                                        |
| Schlemaite        | $(\text{Cu}, \square)_6(\text{Pb}, \text{Bi})\text{Se}_4$                                                                    | A  | 2003-026  | Germany                          | <i>Canadian Mineralogist</i> <b>41</b> (2003), 1433                                                                                                   |                                                                                        |
| Schlossmacherite  | $(\text{H}_3\text{O})\text{Al}_3(\text{SO}_4)_2(\text{OH})_6$                                                                | Rd | 1979-028  | Chile                            | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1980), 215                                                                                         |                                                                                        |
| Schlüterite-(Y)   | $(\text{Y}, \text{REE})_2\text{AlSi}_2\text{O}_7(\text{OH})_2\text{F}$                                                       | A  | 2012-015  | Norway                           | <i>Mineralogical Magazine</i> <b>77</b> (2013), 353                                                                                                   |                                                                                        |
| Schmidite         | $\text{Zn}(\text{Fe}^{3+}_{0.5}\text{Mn}^{2+}_{0.5})_2\text{ZnFe}^{3+}(\text{PO}_4)_3(\text{OH})_3(\text{H}_2\text{O})_8$    | A  | 2017-012  | Germany                          | <i>Mineralogical Magazine</i> <b>83</b> (2019), 181                                                                                                   |                                                                                        |
| Schmiederite      | $\text{Cu}_2\text{Pb}_2(\text{Se}^{4+}\text{O}_3)(\text{Se}^{6+}\text{O}_4)(\text{OH})_4$                                    | G  | 1962      | Argentina                        | Appendix to the Second Edition of an Index of Mineral Species and Varieties Arranged Chemically. British Museum of Natural History, London (1963), 84 | <i>Mineralogy and Petrology</i> <b>36</b> (1987), 3                                    |
| Schmitterite      | $(\text{UO}_2)(\text{Te}^{4+}\text{O}_3)$                                                                                    | A  | 1967-045  | Mexico                           | <i>American Mineralogist</i> <b>56</b> (1971), 411                                                                                                    | <i>Mineralogy and Petrology</i> <b>91</b> (2007), 129                                  |
| Schneebergite     | $\text{BiCo}_2(\text{AsO}_4)_2(\text{OH})(\text{H}_2\text{O})$                                                               | A  | 1999-027  | Germany                          | <i>European Journal of Mineralogy</i> <b>14</b> (2002), 115                                                                                           |                                                                                        |
| Schneiderhöhnite  | $\text{Fe}^{2+}\text{Fe}^{3+}_3\text{As}^{3+}_5\text{O}_{13}$                                                                | A  | 1973-046  | Namibia                          | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1973), 517                                                                                         | <i>Canadian Mineralogist</i> <b>54</b> (2016), 707                                     |
| Schoderite        | $\text{Al}_2(\text{PO}_4)(\text{VO}_4) \cdot 8\text{H}_2\text{O}$                                                            | A  | 1962 s.p. | USA                              | <i>American Mineralogist</i> <b>47</b> (1962), 637                                                                                                    | <i>American Mineralogist</i> <b>64</b> (1979), 713                                     |
| Schoenfliesite    | $\text{MgSn}(\text{OH})_6$                                                                                                   | A  | 1968-008  | USA                              | <i>Zeitschrift für Kristallographie</i> <b>134</b> (1971), 116                                                                                        | <i>Canadian Mineralogist</i> <b>36</b> (1998), 1203                                    |
| Schoepite         | $(\text{UO}_2)_4\text{O}(\text{OH})_6(\text{H}_2\text{O})_6$                                                                 | A  | 1962 s.p. | Democratic Republic of the Congo | <i>American Mineralogist</i> <b>8</b> (1923), 67                                                                                                      | <i>Journal of Geosciences</i> <b>63</b> (2018), 65                                     |
| Schöllhornite     | $\text{Na}_{0.3}\text{CrS}_2(\text{H}_2\text{O})$                                                                            | A  | 1984-043  | USA (meteorite)                  | <i>American Mineralogist</i> <b>70</b> (1985), 638                                                                                                    |                                                                                        |
| Scholzite         | $\text{CaZn}_2(\text{PO}_4)_2(\text{H}_2\text{O})_2$                                                                         | G  | 1948      | Germany                          | <i>Fortschritte der Mineralogie</i> <b>27</b> (1948), 31                                                                                              | <i>Zeitschrift für Kristallographie</i> <b>198</b> (1992), 239                         |
| Schoonerite       | $\text{ZnMn}^{2+}\text{Fe}^{2+}_2\text{Fe}^{3+}(\text{PO}_4)_3(\text{OH})_2(\text{H}_2\text{O})_7 \cdot 2\text{H}_2\text{O}$ | A  | 1976-021  | USA                              | <i>American Mineralogist</i> <b>62</b> (1977), 246                                                                                                    | <i>European Journal of Mineralogy</i> <b>30</b> (2018), 621                            |
| Schorl            | $\text{NaFe}^{2+}_3\text{Al}_6(\text{Si}_6\text{O}_{18})(\text{BO}_3)_3(\text{OH})_3(\text{OH})$                             | Rn | 2007 s.p. | Germany                          | original paper?                                                                                                                                       | <i>Journal of Geosciences</i> <b>67</b> (2022), 129                                    |
| Schorlomite       | $\text{Ca}_3\text{Ti}_2(\text{SiFe}^{3+}_2)\text{O}_{12}$                                                                    | G  | 1846      | USA                              | <i>American Journal of Science and Arts</i> <b>52</b> (1846), 249                                                                                     | <i>Physics and Chemistry of Minerals</i> <b>32</b> (2005), 277                         |
| Schreibersite     | $(\text{Fe}, \text{Ni})_3\text{P}$                                                                                           | G  | 1848      | Slovakia (meteorite)             | <i>Berichte Über die Mittheilungen von Freunden der Naturwissenschaften in Wien</i> <b>3</b> (1848), 65                                               | <i>American Mineralogist</i> <b>106</b> (2021), 1520                                   |
| Schreyerite       | $\text{V}^{3+}_2\text{Ti}^{4+}_3\text{O}_9$                                                                                  | A  | 1976-004  | Kenya                            | <i>Naturwissenschaften</i> <b>63</b> (1976), 293                                                                                                      | <i>American Mineralogist</i> <b>91</b> (2006), 196                                     |
| Schröckingerite   | $\text{NaCa}_3(\text{UO}_2)(\text{SO}_4)(\text{CO}_3)_3\text{F}(\text{H}_2\text{O})_6 \cdot 4\text{H}_2\text{O}$             | G  | 1873      | Czech Republic                   | <i>Tschermaks Mineralogische und Petrographische Mittheilungen</i> <b>1</b> (1873), 137                                                               | <i>Tschermaks Mineralogische und Petrographische Mittheilungen</i> <b>35</b> (1986), 1 |
| Schubnelite       | $\text{Fe}^{3+}(\text{V}^{5+}\text{O}_4)(\text{H}_2\text{O})$                                                                | A  | 1970-015  | Gabon                            | <i>Bulletin de la Société Française de Minéralogie et de Cristallographie</i> <b>93</b> (1970), 470                                                   | <i>American Mineralogist</i> <b>84</b> (1999), 665                                     |
| Schuetteite       | $\text{Hg}_3\text{O}_2(\text{SO}_4)$                                                                                         | A  | 1962 s.p. | USA                              | <i>American Mineralogist</i> <b>44</b> (1959), 1026                                                                                                   | <i>Acta Crystallographica</i> <b>E57</b> (2001), i98                                   |
| Schuilingite-(Nd) | $\text{CuPbNd}(\text{CO}_3)_3(\text{OH})(\text{H}_2\text{O})$                                                                | Rn | 1987 s.p. | Democratic Republic of the Congo | <i>Bulletin de la Société Géologique de Belgique</i> <b>90</b> (1947), B233                                                                           | <i>Canadian Mineralogist</i> <b>37</b> (1999), 1463                                    |

|                   |                                                                                                                                              |    |           |                |                                                                                                                                        |                                                                                             |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------|----|-----------|----------------|----------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| Schulenbergite    | $(\text{Cu,Zn})_7(\text{SO}_4)_2(\text{OH})_{10} \cdot 3\text{H}_2\text{O}$                                                                  | A  | 1982-074  | Germany        | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1984), 17                                                                           | <i>Archives des Sciences de Genève</i> <b>47</b> (1994), 117                                |
| Schüllerite       | $\text{Ba}_2\text{Ti}_2\text{Na}_2\text{Mg}_2(\text{Si}_2\text{O}_7)_2\text{O}_2\text{F}_2$                                                  | Rd | 2010-035  | Germany        | <i>Zapiski Rossiyskogo Mineralogicheskogo Obshchestva</i> <b>140(1)</b> (2011), 67                                                     | <i>Canadian Mineralogist</i> <b>51</b> (2013), 715                                          |
| Schultenite       | $\text{Pb}(\text{AsO}_3\text{OH})$                                                                                                           | G  | 1926      | Namibia        | <i>Mineralogical Magazine</i> <b>21</b> (1926), 149                                                                                    | <i>Journal of Crystallographic and Spectroscopic Research</i> <b>21</b> (1991), 589         |
| Schumacherite     | $\text{Bi}_3\text{O}(\text{VO}_4)_2(\text{OH})$                                                                                              | A  | 1982-023  | Germany        | <i>Tschermaks Mineralogische und Petrographische Mitteilungen</i> <b>31</b> (1983), 165                                                | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1993), 487                               |
| Schwartzembergite | $\text{Pb}^{2+}_5\text{H}_2\text{I}^{3+}\text{O}_6\text{Cl}_3$                                                                               | G  | 1868      | Chile          | A System of Mineralogy, 5th ed. Wiley, New York (1868), 120                                                                            | <i>Canadian Mineralogist</i> <b>39</b> (2001), 785                                          |
| Schwertmannite    | $\text{Fe}^{3+}_{16}\text{O}_{16}(\text{OH})_{9.6}(\text{SO}_4)_{3.2} \cdot 10\text{H}_2\text{O}$                                            | A  | 1990-006  | Finland        | <i>Mineralogical Magazine</i> <b>58</b> (1994), 641                                                                                    | <i>Journal of Applied Crystallography</i> <b>50</b> (2017), 1617                            |
| Sciarite          | $\text{Zn}_7(\text{CO}_3)_2(\text{OH})_{10}$                                                                                                 | A  | 1988-026  | USA            | <i>American Mineralogist</i> <b>74</b> (1989), 1355                                                                                    |                                                                                             |
| Scolecite         | $\text{Ca}(\text{Si}_3\text{Al}_2)\text{O}_{10} \cdot 3\text{H}_2\text{O}$                                                                   | A  | 1997 s.p. | Iceland        | <i>Journal für Chemie und Physik</i> <b>8</b> (1813), 353                                                                              | <i>Microporous and Mesoporous Materials</i> <b>208</b> (2015), 171                          |
| Scordariite       | $\text{K}_8(\text{Fe}^{3+}_{0.67}\square_{0.33})[\text{Fe}^{3+}_3\text{O}(\text{SO}_4)_6(\text{H}_2\text{O})_{32}(\text{H}_2\text{O})_{11}]$ | A  | 2019-010  | Italy          | <i>Minerals</i> <b>9</b> (2019), 702                                                                                                   |                                                                                             |
| Scorodite         | $\text{Fe}^{3+}(\text{AsO}_4)(\text{H}_2\text{O})_2$                                                                                         | G  | 1818      | Germany        | Handbuch der Mineralogie von C.A.S. Hoffmann, Vol. 4. Craz und Gerlach, Freiberg (1818), 182                                           | <i>Acta Crystallographica</i> <b>E63</b> (2007), i67                                        |
| Scorticoite       | $\text{Mn}_6(\text{Sb}\square)(\text{SiO}_4)_2\text{O}_3(\text{OH})_3$                                                                       | A  | 2018-159  | Italy          | CNMNC Newsletter 49 - <i>Mineralogical Magazine</i> <b>83</b> (2019), 479; <i>European Journal of Mineralogy</i> <b>31</b> (2019), 653 | <a href="https://doi.org/10.1180/mgm.2026.10194">https://doi.org/10.1180/mgm.2026.10194</a> |
| Scorzalite        | $\text{Fe}^{2+}\text{Al}_2(\text{PO}_4)_2(\text{OH})_2$                                                                                      | G  | 1949      | Brazil         | <i>American Mineralogist</i> <b>34</b> (1949), 83                                                                                      | <i>Acta Crystallographica</i> <b>12</b> (1959), 695                                         |
| Scotlandite       | $\text{Pb}(\text{S}^{4+}\text{O}_3)$                                                                                                         | A  | 1982-001  | United Kingdom | <i>Mineralogical Magazine</i> <b>48</b> (1984), 283                                                                                    | <i>Tschermaks Mineralogische und Petrographische Mitteilungen</i> <b>34</b> (1985), 289     |
| Scottyite         | $\text{BaCu}_2\text{Si}_2\text{O}_7$                                                                                                         | A  | 2012-027  | South Africa   | <i>American Mineralogist</i> <b>98</b> (2013), 478                                                                                     | <i>Minerals</i> <b>11</b> (2021), 608                                                       |
| Scrutinyite       | $\text{PbO}_2$                                                                                                                               | A  | 1984-061  | USA            | <i>Canadian Mineralogist</i> <b>26</b> (1988), 905                                                                                     | <i>Solid State Sciences</i> <b>7</b> (2005), 1363                                           |
| Seaborgite        | $\text{LiK}_2\text{Na}_6(\text{UO}_2)(\text{SO}_4)_5(\text{SO}_3\text{OH})(\text{H}_2\text{O})$                                              | A  | 2019-087  | USA            | <i>American Mineralogist</i> <b>106</b> (2021), 105                                                                                    |                                                                                             |
| Seamanite         | $\text{Mn}^{2+}_3\text{B}(\text{OH})_4(\text{PO}_4)(\text{OH})_2$                                                                            | G  | 1930      | USA            | <i>American Mineralogist</i> <b>15</b> (1930), 220                                                                                     | <i>Canadian Mineralogist</i> <b>40</b> (2002), 923                                          |
| Searlesite        | $\text{NaBSi}_2\text{O}_5(\text{OH})_2$                                                                                                      | G  | 1914      | USA            | <i>American Journal of Science, Ser. IV</i> <b>38</b> (1914), 437                                                                      | <i>American Mineralogist</i> <b>61</b> (1976), 123                                          |
| Sederholmite      | $\text{NiSe}$                                                                                                                                | A  | 1967 s.p. | Finland        | <i>Comptes Rendus de la Société Géologique de Finlande</i> <b>36</b> (1964), 113                                                       | <i>Acta Crystallographica</i> <b>C77</b> (2021), 169                                        |
| Sedovite          | $\text{U}^{4+}(\text{MoO}_4)_2$                                                                                                              | A  | 1968 s.p. | Kazakhstan     | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>94</b> (1965), 548                                                       | <i>Inorganic Chemistry</i> <b>60</b> (2021), 15169                                          |
| Seeligerite       | $\text{Pb}_3(\text{IO}_4)\text{Cl}_3$                                                                                                        | A  | 1970-036  | Chile          | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1971), 210                                                                          | <i>Mineralogical Magazine</i> <b>72</b> (2008), 771                                         |
| Seelite           | $\text{Mg}(\text{UO}_2)_2(\text{AsO}_3, \text{AsO}_4)_2(\text{H}_2\text{O})_7$                                                               | A  | 1992-005  | France / Iran  | <i>Mineralogical Record</i> <b>24</b> (1993), 463                                                                                      | <i>European Journal of Mineralogy</i> <b>6</b> (1994), 673                                  |
| Segelerite        | $\text{CaMgFe}^{3+}(\text{PO}_4)_2(\text{OH})(\text{H}_2\text{O})_4$                                                                         | A  | 1973-023  | USA            | <i>American Mineralogist</i> <b>59</b> (1974), 48                                                                                      | <i>European Journal of Mineralogy</i> <b>31</b> (2019), 465                                 |
| Segerstromite     | $\text{Ca}_3(\text{As}^{5+}\text{O}_4)_2[\text{As}^{3+}(\text{OH})_3]_2$                                                                     | A  | 2014-001  | Chile          | <i>American Mineralogist</i> <b>103</b> (2018), 1497                                                                                   |                                                                                             |
| Segnitite         | $\text{PbFe}^{3+}_3(\text{AsO}_4)(\text{AsO}_3\text{OH})(\text{OH})_6$                                                                       | A  | 1991-017  | Australia      | <i>American Mineralogist</i> <b>77</b> (1992), 656                                                                                     | <i>American Mineralogist</i> <b>99</b> (2014), 1355                                         |

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| Seidite-(Ce)     | $\text{Na}_4(\text{Ce}, \text{Sr})_2\text{TiSi}_8\text{O}_{18}(\text{O}, \text{OH}, \text{F})_6(\text{H}_2\text{O})_5$                                                                                 | A  | 1993-029  | Russia              | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>127(4)</b> (1998), 94                                                  | <i>Canadian Mineralogist</i> <b>41</b> (2003), 1183                                         |
| Seidozerite      | $\text{Na}_2\text{Zr}_2\text{Na}_2\text{MnTi}(\text{Si}_2\text{O}_7)_2\text{O}_2\text{F}_2$                                                                                                            | Rd | 2016 s.p. | Russia              | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>87</b> (1958), 590                                                       | <i>Canadian Mineralogist</i> <b>41</b> (2003), 1203                                         |
| Seifertite       | $\text{SiO}_2$                                                                                                                                                                                         | A  | 2004-010  | India (meteorite)   | <i>European Journal of Mineralogy</i> <b>20</b> (2008), 523                                                                            | <i>American Mineralogist</i> <b>101</b> (2016), 231                                         |
| Seinäjokite      | $\text{FeSb}_2$                                                                                                                                                                                        | A  | 1976-001  | Finland             | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>105</b> (1976), 617                                                      | <i>Journal of Alloys and Compounds</i> <b>307</b> (2000), 223                               |
| Sejkoraite-(Y)   | $\text{Y}_2[(\text{UO}_2)_8\text{O}_6(\text{SO}_4)_4(\text{OH})_2](\text{H}_2\text{O})_{17} \cdot 9\text{H}_2\text{O}$                                                                                 | A  | 2009-008  | Czech Republic      | <i>American Mineralogist</i> <b>96</b> (2011), 983                                                                                     |                                                                                             |
| Sekaninaite      | $\text{Fe}^{2+}_2\text{Al}_3(\text{Si}_5\text{AlO}_{18})$                                                                                                                                              | A  | 1967-047  | Czech Republic      | <i>Scripta Facultatis Scientiarum Naturalium Universitatis Purkynianae Brunensis, Geologia</i> <b>1(5)</b> (1975), 21                  | <i>Mineralogical Magazine</i> <b>89</b> (2025), 463                                         |
| Selenium         | Se                                                                                                                                                                                                     | G  | 1934      | USA                 | <i>American Mineralogist</i> <b>19</b> (1934), 194                                                                                     | <i>Soviet Physics - Crystallography</i> <b>14</b> (1969), 259                               |
| Selenodantopaite | $\text{Ag}_5\text{Bi}_{13}\text{Se}_{22}$                                                                                                                                                              | A  | 2023-092  | Czech Republic      | <i>Mineralogical Magazine</i> <b>90</b> (2026), 315                                                                                    | <a href="https://doi.org/10.1180/mgm.2025.10111">https://doi.org/10.1180/mgm.2025.10111</a> |
| Selenojalpaite   | $\text{Ag}_3\text{CuSe}_2$                                                                                                                                                                             | A  | 2004-048  | Sweden              | <i>Canadian Mineralogist</i> <b>43</b> (2005), 1373                                                                                    |                                                                                             |
| Selenojunoite    | $\text{Cu}_2\text{Pb}_3\text{Bi}_8\text{Se}_{16}$                                                                                                                                                      | A  | 2023-038  | Russia              | CNMNC Newsletter 75 - <i>Mineralogical Magazine</i> <b>87</b> (2023), 955; <i>European Journal of Mineralogy</i> <b>35</b> (2023), 891 |                                                                                             |
| Selenolaurite    | $\text{RuSe}_2$                                                                                                                                                                                        | A  | 2020-027  | Russia              | <i>Mineralogical Magazine</i> <b>89</b> (2025), 380                                                                                    |                                                                                             |
| Selenopolybasite | $\text{Cu}(\text{Ag}, \text{Cu})_6\text{Ag}_9\text{Sb}_2(\text{S}, \text{Se})_9\text{Se}_2$                                                                                                            | A  | 2006-053  | USA                 | <i>Canadian Mineralogist</i> <b>45</b> (2007), 1525                                                                                    | <i>Acta Crystallographica</i> <b>B62</b> (2006), 768                                        |
| Selenostephanite | $\text{Ag}_5\text{SbSe}_4$                                                                                                                                                                             | A  | 1982-028  | Russia              | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>114</b> (1985), 627                                                      |                                                                                             |
| Seligmannite     | $\text{CuPbAsS}_3$                                                                                                                                                                                     | G  | 1901      | Switzerland         | <i>Sitzungsberichte der Königlich Preussischen Akademie der Wissenschaften</i> (1901), 110                                             | <i>Zeitschrift für Kristallographie</i> <b>131</b> (1970), 397                              |
| Selivanovaite    | $\text{Fe}^{3+}\square\text{Ti}_2\text{Na}\square\text{Ti}_2(\text{Si}_2\text{O}_7)_2\text{O}_4(\text{H}_2\text{O})_4$                                                                                 | A  | 2015-126  | Russia              | <i>European Journal of Mineralogy</i> <b>30</b> (2018), 525                                                                            | <i>Canadian Mineralogist</i> <b>60</b> (2022), 513                                          |
| Sellaite         | $\text{MgF}_2$                                                                                                                                                                                         | G  | 1868      | France              | <i>Atti della Regia Accademia delle Scienze di Torino</i> <b>4</b> (1868), 35                                                          | <i>Physics and Chemistry of Minerals</i> <b>46</b> (2019), 987                              |
| Selsurtite       | $(\text{H}_3\text{O})_{12}\text{Na}_3(\text{Ca}_3\text{Mn}_3)(\text{Na}_2\text{Fe})\text{Zr}_3\square\text{Si}[\text{Si}_{24}\text{O}_{69}(\text{OH})_3](\text{OH})\text{Cl} \cdot \text{H}_2\text{O}$ | A  | 2022-026  | Russia              | <i>Mineralogical Magazine</i> <b>87</b> (2023), 241                                                                                    |                                                                                             |
| Selwynite        | $\text{NaKBeZr}_2(\text{PO}_4)_4 \cdot 2\text{H}_2\text{O}$                                                                                                                                            | A  | 1993-037  | Australia           | <i>Canadian Mineralogist</i> <b>33</b> (1995), 55                                                                                      |                                                                                             |
| Semenovite-(Ce)  | $(\text{Na}, \text{Ca})_9\text{Fe}^{2+}\text{Ce}_2(\text{Si}, \text{Be})_{20}(\text{O}, \text{OH}, \text{F})_{48}$                                                                                     | A  | 1971-036  | Denmark (Greenland) | <i>Lithos</i> <b>5</b> (1972), 163                                                                                                     | <i>American Mineralogist</i> <b>64</b> (1979), 202                                          |
| Semseyite        | $\text{Pb}_9\text{Sb}_8\text{S}_{21}$                                                                                                                                                                  | G  | 1881      | Romania             | <i>Magyar Tudományos Akadémia Értesítője</i> <b>15</b> (1881), 111                                                                     | <i>European Journal of Mineralogy</i> <b>32</b> (2020), 623                                 |
| Senaite          | $\text{Pb}(\text{Mn}, \text{Y}, \text{U})(\text{Fe}, \text{Zn})_2(\text{Ti}, \text{Fe}, \text{Cr}, \text{V})_{18}(\text{O}, \text{OH})_{38}$                                                           | G  | 1898      | Brazil              | <i>Mineralogical Magazine</i> <b>12</b> (1898), 30                                                                                     | <i>European Journal of Mineralogy</i> <b>2</b> (1990), 163                                  |
| Senandorite      | $\text{AgPbSb}_3\text{S}_6$                                                                                                                                                                            | Rn | 2022 s.p. | Romania             | <i>Mathematikai és Természet-tudományi Értesítő</i> <b>11</b> (1892), 119                                                              | <i>Zeitschrift für Kristallographie</i> <b>180</b> (1987), 141                              |
| Senarmontite     | $\text{Sb}_2\text{O}_3$                                                                                                                                                                                | Rn | 1851      | Algeria             | <i>American Journal of Science and Arts</i> <b>12</b> (1851), 205                                                                      | <i>Crystals</i> <b>13</b> (2023), 752                                                       |
| Senegalite       | $\text{Al}_2(\text{PO}_4)(\text{OH})_3(\text{H}_2\text{O})$                                                                                                                                            | A  | 1975-004  | Senegal             | <i>Lithos</i> <b>9</b> (1976), 165                                                                                                     | <i>American Mineralogist</i> <b>64</b> (1979), 1243                                         |

|                  |                                                                                                                                       |    |           |                                  |                                                                                                                                            |                                                                                         |
|------------------|---------------------------------------------------------------------------------------------------------------------------------------|----|-----------|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| Sengierite       | $\text{Cu}_2(\text{UO}_2)_2(\text{VO}_4)_2(\text{OH})_2(\text{H}_2\text{O})_6$                                                        | Rn | 2007 s.p. | Democratic Republic of the Congo | <i>American Mineralogist</i> <b>34</b> (1949), 109                                                                                         | <i>Bulletin de Minéralogie</i> <b>103</b> (1980), 176                                   |
| Senkevichite     | $\text{CsNaKCa}_2\text{TiSi}_7\text{O}_{18}(\text{OH})\text{O}$                                                                       | A  | 2004-017  | Tajikistan                       | <i>New Data on Minerals</i> <b>40</b> (2005), 11                                                                                           | <i>Canadian Mineralogist</i> <b>44</b> (2006), 1341                                     |
| Sepiolite        | $\text{Mg}_4\text{Si}_6\text{O}_{15}(\text{OH})_2(\text{H}_2\text{O})_2 \cdot 4\text{H}_2\text{O}$                                    | G  | 1847      | Italy                            | Generum et Specierum Mineralium, Secundum Ordines Naturales Digestorum Synopsis. Anton, Halle (1847), 185                                  | <i>Mineralogical Magazine</i> <b>83</b> (2019), 209                                     |
| Serandite        | $\text{NaMn}^{2+}_2\text{Si}_3\text{O}_8(\text{OH})$                                                                                  | Rn | 1931      | Guinea                           | <i>Comptes Rendus de l'Academie des Sciences de Paris</i> <b>192</b> (1931), 187                                                           | <i>European Journal of Mineralogy</i> <b>30</b> (2018), 451                             |
| Serendibite      | $\text{Ca}_4[\text{Mg}_6\text{Al}_6]\text{O}_4[\text{Si}_6\text{B}_3\text{Al}_3\text{O}_{36}]$                                        | G  | 1903      | Sri Lanka                        | <i>Mineralogical Magazine</i> <b>13</b> (1903), 224                                                                                        | <i>Canadian Mineralogist</i> <b>52</b> (2014), 1                                        |
| Sergeevite       | $\text{Ca}_2\text{Mg}_{11}(\text{CO}_3)_9(\text{HCO}_3)_4(\text{OH})_4 \cdot 6\text{H}_2\text{O}$                                     | A  | 1979-038  | Russia                           | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>109</b> (1980), 217                                                          |                                                                                         |
| Sergevanite      | $\text{Na}_{15}(\text{Ca}_3\text{Mn}_3)(\text{Na}_2\text{Fe})\text{Zr}_3\text{Si}_{26}\text{O}_{72}(\text{OH})_3(\text{H}_2\text{O})$ | A  | 2019-057  | Russia                           | <i>Canadian Mineralogist</i> <b>58</b> (2020), 421                                                                                         | <i>Crystallography Reports</i> <b>65</b> (2020) 554                                     |
| Sergeysmirnovite | $\text{MgZn}_2(\text{PO}_4)_2(\text{H}_2\text{O})_4$                                                                                  | A  | 2021-033  | Russia                           | <i>Doklady Earth Sciences</i> <b>505</b> (2022), 549                                                                                       | <i>Crystals</i> <b>12</b> (2022), 1120                                                  |
| Serpierite       | $\text{CaCu}_4(\text{SO}_4)_2(\text{OH})_6(\text{H}_2\text{O})_3$                                                                     | G  | 1881      | Greece                           | <i>Bulletin de la Société Mineralogique de France</i> <b>4</b> (1881), 89                                                                  | <i>Mineralogy and Petrology</i> <b>117</b> (2023), 27                                   |
| Serrabrancaite   | $\text{Mn}(\text{PO}_4)(\text{H}_2\text{O})$                                                                                          | A  | 1998-006  | Brazil                           | <i>American Mineralogist</i> <b>85</b> (2000), 847                                                                                         | <i>Inorganic Chemistry</i> <b>26</b> (1987), 3544                                       |
| Sewardite        | $\text{CaFe}^{3+}_2(\text{AsO}_4)_2(\text{OH})_2$                                                                                     | A  | 2001-054  | Namibia                          | <i>Canadian Mineralogist</i> <b>40</b> (2002), 1191                                                                                        |                                                                                         |
| Shabaite-(Nd)    | $\text{Nd}_2\text{Ca}[\text{UO}_2](\text{CO}_3)_3[(\text{CO}_3)_2(\text{H}_2\text{O})_{10.5}]$                                        | A  | 1988-005  | Democratic Republic of the Congo | <i>European Journal of Mineralogy</i> <b>1</b> (1989), 85                                                                                  | <i>Journal of Geosciences</i> <b>62</b> (2017), 97                                      |
| Shabynite        | $\text{Mg}_5(\text{BO}_3)(\text{OH})_5\text{Cl}_2 \cdot 4\text{H}_2\text{O}$                                                          | A  | 1979-075  | Russia                           | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>109</b> (1980), 569                                                          |                                                                                         |
| Shadlunite       | $(\text{Fe,Cu})_8(\text{Pb,Cd})\text{S}_8$                                                                                            | A  | 1972-012  | Russia                           | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>102</b> (1973), 63                                                           |                                                                                         |
| Shafranovskite   | $\text{Na}_3\text{K}_2(\text{Mn,Fe,Na})_4[\text{Si}_9(\text{O,OH})_{27}](\text{OH})_2(\text{H}_2\text{O})_n$<br>[n ~ 2.33]            | A  | 1981-048  | Russia                           | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>111</b> (1982), 475                                                          | <i>American Mineralogist</i> <b>89</b> (2004), 1816                                     |
| Shagamite        | $\text{KFe}_{11}\text{O}_{17}$                                                                                                        | A  | 2020-091  | Israel                           | <i>Minerals</i> <b>16</b> (2026), 180                                                                                                      |                                                                                         |
| Shakhdarait-(Y)  | $\text{ScYNb}_2\text{O}_8$                                                                                                            | A  | 2020-024  | Tajikistan                       | <i>Canadian Mineralogist</i> <b>60</b> (2022), 369                                                                                         |                                                                                         |
| Shakhovite       | $\text{Hg}^{1+}_4\text{Sb}^{5+}\text{O}_3(\text{OH})_3$                                                                               | A  | 1980-069  | Kyrgyzstan                       | <i>Geologiya i Geofizika</i> <b>11</b> (1980), 128                                                                                         | <i>Tschermaks Mineralogische und Petrographische Mitteilungen</i> <b>30</b> (1982), 227 |
| Shandite         | $\text{Ni}_3\text{Pb}_2\text{S}_2$                                                                                                    | G  | 1950      | Australia                        | <i>Sitzungsberichte der Deutschen Akademie der Wissenschaften zu Berlin, Mathematisch-naturwissenschaftliche Klasse</i> <b>6</b> (1950), 1 | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1978), 256                           |
| Shannonite       | $\text{Pb}_2\text{O}(\text{CO}_3)$                                                                                                    | A  | 1993-053  | USA                              | <i>Mineralogical Magazine</i> <b>59</b> (1995), 305                                                                                        | <i>Mineralogical Magazine</i> <b>64</b> (2000), 1063                                    |
| Sharpite         | $\text{Ca}(\text{UO}_2)_3(\text{CO}_3)_4(\text{H}_2\text{O})_3$                                                                       | G  | 1938      | Democratic Republic of the Congo | <i>Bulletin des Séances de l'Institut Royal Colonial Belge</i> <b>9</b> (1938), 333                                                        | <i>Zeitschrift für Kristallographie - Crystalline Materials</i> <b>233</b> (2018), 579  |
| Sharyginite      | $\text{Ca}_3\text{TiFe}_2\text{O}_8$                                                                                                  | A  | 2017-014  | Germany                          | <i>Minerals</i> <b>8</b> (2018), 308                                                                                                       |                                                                                         |

|                 |                                                                                                                                        |    |           |                                  |                                                                                                                                        |                                                                           |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------------|----|-----------|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|
| Shasuite        | $\text{CaNi}_3(\text{P}_2\text{O}_7)_2$                                                                                                | A  | 2021-020  | Israel                           | CNMNC Newsletter 62 - <i>Mineralogical Magazine</i> <b>85</b> (2021), 634; <i>European Journal of Mineralogy</i> <b>33</b> (2021), 479 |                                                                           |
| Shattuckite     | $\text{Cu}_5(\text{SiO}_3)_4(\text{OH})_2$                                                                                             | Rd | 1967 s.p. | USA                              | <i>Journal of the Washington Academy of Sciences</i> <b>5</b> (1915), 7                                                                | <i>American Mineralogist</i> <b>62</b> (1977), 491                        |
| Shcherbakovite  | $\text{K}_2\text{NaTi}_2\text{O}(\text{OH})(\text{Si}_2\text{O}_6)_2$                                                                  | G  | 1954      | Russia                           | <i>Doklady Akademii Nauk SSSR</i> <b>99</b> (1954), 837                                                                                | <i>Canadian Mineralogist</i> <b>41</b> (2003), 1193                       |
| Shcherbinaite   | $\text{V}_2\text{O}_5$                                                                                                                 | A  | 1971-021  | Russia                           | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>101</b> (1972), 464                                                      | <i>Acta Crystallographica</i> <b>C42</b> (1986), 1467                     |
| Shchurovskyite  | $\text{K}_2\text{CaCu}_6\text{O}_2(\text{AsO}_4)_4$                                                                                    | A  | 2013-078  | Russia                           | <i>Mineralogical Magazine</i> <b>79</b> (2015), 1737                                                                                   |                                                                           |
| Sheldrickite    | $\text{NaCa}_3(\text{CO}_3)_2\text{F}_3(\text{H}_2\text{O})$                                                                           | A  | 1996-019  | Canada                           | <i>Canadian Mineralogist</i> <b>35</b> (1997), 181                                                                                     |                                                                           |
| Shenganfuite    | $\text{PbTe}^{4+}_3\text{O}_5(\text{OH})\text{Cl}_3(\text{H}_2\text{O})$                                                               | A  | 2024-031  | Mexico                           | <i>Canadian Journal of Mineralogy and Petrology</i> <b>64</b> (2026), 173                                                              |                                                                           |
| Shenzhuangite   | $\text{NiFeS}_2$                                                                                                                       | A  | 2017-018  | China (meteorite)                | <i>European Journal of Mineralogy</i> <b>30</b> (2018), 165                                                                            | <i>American Mineralogist</i> <b>104</b> (2019), 1165                      |
| Sherwoodite     | $\text{Ca}_{5.5}(\text{AlV}^{4+}\text{V}^{5+}_{12}\text{O}_{39}) \cdot 28\text{H}_2\text{O}$                                           | G  | 1958      | USA                              | <i>American Mineralogist</i> <b>43</b> (1958), 749                                                                                     | <i>Canadian Journal of Mineralogy and Petrology</i> <b>61</b> (2023), 979 |
| Shibkovite      | $\text{K}_2\text{Ca}_2(\text{Zn}_3\text{Si}_{12})\text{O}_{30}$                                                                        | A  | 1997-018  | Tajikistan                       | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>127(4)</b> (1998), 89                                                  | <i>Crystallography Reports</i> <b>60</b> (2015), 37                       |
| Shigaite        | $\text{Mn}_6\text{Al}_3(\text{OH})_{18}[\text{Na}(\text{H}_2\text{O})_6](\text{SO}_4)_2 \cdot 6\text{H}_2\text{O}$                     | A  | 1984-057  | Japan                            | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1985), 453                                                                          | <i>Canadian Mineralogist</i> <b>34</b> (1996), 91                         |
| Shijiangshanite | $\text{Pb}_3\text{CaAl}(\text{Si}_5\text{O}_{14})(\text{OH})_3(\text{H}_2\text{O})_3$                                                  | A  | 2022-029  | China                            | CNMNC Newsletter 69 - <i>Mineralogical Magazine</i> <b>86</b> (2022), 988; <i>European Journal of Mineralogy</i> <b>34</b> (2022), 463 |                                                                           |
| Shilovite       | $\text{Cu}(\text{NH}_3)_4(\text{NO}_3)_2$                                                                                              | A  | 2014-016  | Chile                            | <i>Mineralogical Magazine</i> <b>79</b> (2015), 613                                                                                    |                                                                           |
| Shimazakiite    | $\text{Ca}_2\text{B}_2\text{O}_5$                                                                                                      | A  | 2010-085a | Japan                            | <i>Mineralogical Magazine</i> <b>77</b> (2013), 93                                                                                     |                                                                           |
| Shimenite       | $\text{Ti}_5\text{Sb}_{21-y}\text{As}_y\text{S}_{34} \quad (9 \leq y \leq 10)$                                                         | A  | 2019-069  | China                            | CNMNC Newsletter 63 - <i>Mineralogical Magazine</i> <b>85</b> (2021), 910; <i>European Journal of Mineralogy</i> <b>33</b> (2021), 639 |                                                                           |
| Shinarumpite    | $[\text{Co}(\text{H}_2\text{O})_6][(\text{UO}_2)(\text{SO}_4)_2(\text{H}_2\text{O})] \cdot 4\text{H}_2\text{O}$                        | A  | 2021-105  | USA                              | <i>Mineralogical Magazine</i> <b>87</b> (2023), 348                                                                                    |                                                                           |
| Shinichengite   | $\text{Ca}_5[\text{BSi}_2\text{O}_7(\text{OH})_2]_2(\text{H}_2\text{O})_6$                                                             | A  | 2023-026  | China                            | CNMNC Newsletter 74 - <i>Mineralogical Magazine</i> <b>87</b> (2023), 783; <i>European Journal of Mineralogy</i> <b>35</b> (2023), 659 |                                                                           |
| Shinkolobweite  | $\text{Pb}_{1.33}[\text{U}^{5+}\text{O}(\text{OH})(\text{U}^{6+}\text{O}_2)_5\text{O}_{4.67}(\text{OH})_{5.33}](\text{H}_2\text{O})_5$ | A  | 2016-095  | Democratic Republic of the Congo | <i>Canadian Journal of Mineralogy and Petrology</i> <b>61</b> (2023), 999                                                              |                                                                           |
| Shiranuiite     | $\text{Cu}^+(\text{Rh}^{3+}\text{Rh}^{4+})\text{S}_4$                                                                                  | A  | 2023-072a | Japan                            | <i>Journal of Mineralogical and Petrological Sciences</i> <b>119</b> (2024), 240529                                                    |                                                                           |
| Shirokshinite   | $\text{K}(\text{Mg}_2\text{Na})\text{Si}_4\text{O}_{10}\text{F}_2$                                                                     | A  | 2001-063  | Russia                           | <i>European Journal of Mineralogy</i> <b>15</b> (2003), 447                                                                            |                                                                           |
| Shirozulite     | $\text{KMn}^{2+}_3(\text{Si}_3\text{Al})\text{O}_{10}(\text{OH})_2$                                                                    | A  | 2001-045  | Japan                            | <i>American Mineralogist</i> <b>89</b> (2004), 232                                                                                     |                                                                           |
| Shkatulkalite   | $\text{Na}_2\text{Nb}_2\text{Na}_3\text{Ti}(\text{Si}_2\text{O}_7)_2\text{O}_2(\text{FO})(\text{H}_2\text{O})_4(\text{H}_2\text{O})_3$ | A  | 1993-058  | Russia                           | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>125(1)</b> (1996), 120                                                 | <i>Canadian Mineralogist</i> <b>60</b> (2022), 493                        |
| Shlykovite      | $\text{KCa}[\text{Si}_4\text{O}_9(\text{OH})](\text{H}_2\text{O})_2 \cdot \text{H}_2\text{O}$                                          | A  | 2008-062  | Russia                           | <i>Zapiski Rossiyskogo Mineralogicheskogo Obshchestva</i> <b>139(1)</b> (2010), 37                                                     | <i>European Journal of Mineralogy</i> <b>22</b> (2010), 547               |

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|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------|----|-----------|-------------|----------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| Shojiite       | $\text{Na}(\text{NaMg})\text{Mg}_5\text{Si}_8\text{O}_{22}(\text{OH})_2$                                                                           | A  | 2024-023a | Japan       | CNMNC Newsletter 87 - <i>Mineralogical Magazine</i> <b>89</b> (2025), 706; <i>European Journal of Mineralogy</i> <b>37</b> (2025), 695 |                                                                                             |
| Shomiokite-(Y) | $\text{Na}_3\text{Y}(\text{CO}_3)_3(\text{H}_2\text{O})_3$                                                                                         | A  | 1990-015  | Russia      | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>121(6)</b> (1992), 129                                                 | <i>Journal of Solid State Chemistry</i> <b>298</b> (2021), 122095                           |
| Shortite       | $\text{Na}_2\text{Ca}_2(\text{CO}_3)_3$                                                                                                            | G  | 1939      | USA         | <i>American Mineralogist</i> <b>24</b> (1939), 514                                                                                     | <i>American Mineralogist</i> <b>110</b> (2025), 1280                                        |
| Shosanbetsuite | $\text{Ag}_3\text{Sn}$                                                                                                                             | A  | 2018-162  | Japan       | <i>Journal of Mineralogical and Petrological Sciences</i> <b>116</b> (2021), 263                                                       |                                                                                             |
| Shuangfengite  | $\text{IrTe}_2$                                                                                                                                    | A  | 1993-018  | China       | <i>Acta Mineralogica Sinica</i> <b>14</b> (1994), 322                                                                                  | <i>Journal of Solid State Chemistry</i> <b>162</b> (2001), 63                               |
| Shuiskite-(Cr) | $\text{Ca}_2(\text{CrCr}_2)[\text{Si}_2\text{O}_6(\text{OH})](\text{SiO}_4)(\text{OH})_2\text{O}$                                                  | A  | 2019-117  | Russia      | <i>Minerals</i> <b>10</b> (2020), 390                                                                                                  |                                                                                             |
| Shuiskite-(Mg) | $\text{Ca}_2(\text{MgCr}_2)(\text{Si}_2\text{O}_7)(\text{SiO}_4)(\text{OH})_2(\text{H}_2\text{O})$                                                 | Rn | 1980-061  | Russia      | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>110</b> (1981), 508                                                      | <i>European Journal of Mineralogy</i> <b>30</b> (2018), 1133                                |
| Shulamitite    | $\text{Ca}_3\text{TiFe}^{3+}\text{AlO}_8$                                                                                                          | A  | 2011-016  | Israel      | <i>European Journal of Mineralogy</i> <b>25</b> (2013), 97                                                                             |                                                                                             |
| Shumwayite     | $[(\text{UO}_2)(\text{SO}_4)(\text{H}_2\text{O})_2]_2 \cdot \text{H}_2\text{O}$                                                                    | A  | 2015-058  | USA         | <i>Mineralogical Magazine</i> <b>81</b> (2017), 273                                                                                    | <i>Bulletin Mineralogicko-Petrologického Oddělení Národního Muzea</i> <b>27</b> (2019), 411 |
| Shuvalovite    | $\text{K}_2(\text{Ca}_2\text{Na})(\text{SO}_4)_3\text{F}$                                                                                          | A  | 2014-057  | Russia      | <i>European Journal of Mineralogy</i> <b>28</b> (2016), 53                                                                             |                                                                                             |
| Sibirskite     | $\text{CaBO}_2(\text{OH})$                                                                                                                         | G  | 1962      | Russia      | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>91</b> (1962), 455                                                       | <i>Canadian Mineralogist</i> <b>49</b> (2011), 823                                          |
| Sicherite      | $\text{TiAg}_2(\text{As,Sb})_3\text{S}_6$                                                                                                          | A  | 1997-051  | Switzerland | <i>American Mineralogist</i> <b>86</b> (2001), 1087                                                                                    |                                                                                             |
| Siderazot      | $\text{Fe}_3\text{N}_{1.33}$                                                                                                                       | Rd | 2021 s.p. | Italy       | <i>Annalen der Physik und Chemie</i> <b>157</b> (1876), 165                                                                            | <i>Minerals</i> <b>11</b> (2021), 290                                                       |
| Siderite       | $\text{Fe}(\text{CO}_3)$                                                                                                                           | A  | 1962 s.p. | unknown     | Handbuch der Bestimmenden Mineralogie. Braumüller and Seidel, Wien (1845), 499                                                         | <i>Physics and Chemistry of Minerals</i> <b>45</b> (2018), 831                              |
| Sideronatrite  | $\text{Na}_2\text{Fe}^{3+}(\text{SO}_4)_2(\text{OH})(\text{H}_2\text{O})_3$                                                                        | G  | 1878      | Chile       | Mineraux du Perou. Chaix, Paris (1878), 233                                                                                            | <i>European Journal of Mineralogy</i> <b>27</b> (2015), 427                                 |
| Siderophyllite | $\text{KFe}^{2+}_2\text{Al}(\text{Si}_2\text{Al}_2)\text{O}_{10}(\text{OH})_2$                                                                     | A  | 1998 s.p. | USA         | <i>Proceedings of the Academy of Natural Sciences of Philadelphia</i> <b>32</b> (1881) 254                                             | <i>American Mineralogist</i> <b>100</b> (2015), 2231                                        |
| Siderotil      | $\text{Fe}(\text{SO}_4)(\text{H}_2\text{O})_4 \cdot \text{H}_2\text{O}$                                                                            | Rd | 1963 s.p. | Slovenia    | <i>Jahrbuch der Geologischen Reichsanstalt Wien</i> <b>41</b> (1891), 380                                                              | <i>Canadian Mineralogist</i> <b>41</b> (2003), 671                                          |
| Sidorenkite    | $\text{Na}_3\text{Mn}(\text{PO}_4)(\text{CO}_3)$                                                                                                   | A  | 1978-013  | Russia      | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>108</b> (1979), 56                                                       | <i>Chemistry of Materials</i> <b>25</b> (2013), 2777                                        |
| Sidorovite     | $\text{PtFe}_3$                                                                                                                                    | A  | 2022-056  | Russia      | <i>Canadian Journal of Mineralogy and Petrology</i> <b>61</b> (2023), 1021                                                             |                                                                                             |
| Sidpietersite  | $\text{Pb}^{2+}_4(\text{S}_2\text{O}_3)\text{O}_2(\text{OH})_2$                                                                                    | A  | 1998-036  | Namibia     | <i>Canadian Mineralogist</i> <b>37</b> (1999), 1269                                                                                    | <i>Canadian Mineralogist</i> <b>37</b> (1999), 1275                                         |
| Sidwillite     | $\text{MoO}_3(\text{H}_2\text{O}) \cdot \text{H}_2\text{O}$                                                                                        | A  | 1983-089  | USA         | <i>Bulletin de Minéralogie</i> <b>108</b> (1985), 813                                                                                  | <i>Acta Crystallographica</i> <b>B28</b> (1972), 2222                                       |
| Siegenite      | $\text{CoNi}_2\text{S}_4$                                                                                                                          | G  | 1850      | Germany     | A System of Mineralogy, 3rd ed. Putnam, New York (1850), 687                                                                           | <i>Canadian Mineralogist</i> <b>56</b> (2018), 705                                          |
| Sieleckiite    | $\text{Cu}_3\text{Al}_4(\text{PO}_4)_2(\text{OH})_{12}(\text{H}_2\text{O})_2$                                                                      | A  | 1987-023  | Australia   | <i>Mineralogical Magazine</i> <b>52</b> (1988), 515                                                                                    | <i>Mineralogical Magazine</i> <b>81</b> (2017), 917                                         |
| Sigismundite   | $(\text{Ba}\square)(\text{Fe}^{2+}\square)(\text{CaNa}_2\square)\text{Fe}^{2+}_{13}\text{Al}(\text{PO}_4)_{11}(\text{PO}_3\text{OH})(\text{OH})_2$ | Rn | 2022 s.p. | Italy       | <i>Canadian Mineralogist</i> <b>34</b> (1996), 827                                                                                     | <i>European Journal of Mineralogy</i> <b>34</b> (2022), 321                                 |

|                 |                                                                                                              |    |           |                 |                                                                                           |                                                                           |
|-----------------|--------------------------------------------------------------------------------------------------------------|----|-----------|-----------------|-------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|
| Sigloite        | $\text{Fe}^{3+}\text{Al}_2(\text{PO}_4)_2(\text{OH})_3(\text{H}_2\text{O})_5 \cdot 2\text{H}_2\text{O}$      | A  | 1967 s.p. | Bolivia         | <i>American Mineralogist</i> <b>47</b> (1962), 1                                          | <i>Mineralogy and Petrology</i> <b>38</b> (1988), 201                     |
| Sigogglinite    | $[\text{Pb}_6\text{Zn}(\text{OH})_8]2(\text{SO}_4)_6(\text{H}_2\text{O})_{8-x} \quad (0 < x < 1)$            | A  | 2024-069  | USA             | <i>Canadian Journal of Mineralogy and Petrology</i> <b>64</b> (2026), 261                 |                                                                           |
| Siidraite       | $\text{Pb}_2\text{Cu}(\text{OH})_2\text{I}_3$                                                                | A  | 2016-039  | Australia       | <i>European Journal of Mineralogy</i> <b>29</b> (2017), 1027                              | <i>Journal of Solid State Chemistry</i> <b>238</b> (2016), 9              |
| Silesiaite      | $\text{Ca}_4\text{Fe}^{3+}_2\text{Sn}_2(\text{Si}_2\text{O}_7)_2(\text{Si}_2\text{O}_6\text{OH})_2$          | A  | 2017-064  | Poland          | <i>Mineralogical Magazine</i> <b>87</b> (2023), 271                                       | <i>European Journal of Mineralogy</i> <b>33</b> (2021), 165               |
| Silhydrite      | $\text{Si}_3\text{O}_6 \cdot \text{H}_2\text{O}$                                                             | A  | 1970-044  | USA             | <i>American Mineralogist</i> <b>57</b> (1972), 1053                                       |                                                                           |
| Silicocarnotite | $\text{Ca}_5[(\text{PO}_4)(\text{SiO}_4)](\text{PO}_4)$                                                      | A  | 2013-139  | Israel          | <i>European Journal of Mineralogy</i> <b>28</b> (2016), 105                               | <i>Minerals</i> <b>14</b> (2024), 1301                                    |
| Silicon         | Si                                                                                                           | A  | 1982-099  | Cuba            | <i>Doklady Akademii Nauk SSSR</i> <b>309</b> (1989), 1182                                 |                                                                           |
| Siligiite       | $[\text{Pb}(\text{H}_2\text{O})_5(\text{SO}_4)][\text{Zn}_9(\text{OH})_{18}]$                                | A  | 2023-117  | USA             | <i>Canadian Journal of Mineralogy and Petrology</i> <b>62</b> (2024), 881                 |                                                                           |
| Silinaite       | $\text{NaLiSi}_2\text{O}_5(\text{H}_2\text{O})_2$                                                            | A  | 1990-028  | Canada          | <i>Canadian Mineralogist</i> <b>29</b> (1991), 359                                        | <i>Canadian Mineralogist</i> <b>29</b> (1991), 363                        |
| Sillénite       | $\text{Bi}_{12}\text{SiO}_{20}$                                                                              | G  | 1943      | Mexico          | <i>American Mineralogist</i> <b>28</b> (1943), 521                                        | <i>Acta Crystallographica</i> <b>B47</b> (1991), 1                        |
| Sillimanite     | $\text{Al}_2\text{SiO}_5$                                                                                    | G  | 1824      | USA             | <i>American Journal of Science and Arts</i> <b>8</b> (1824), 113                          | <i>American Mineralogist</i> <b>103</b> (2018), 944                       |
| Silver          | Ag                                                                                                           | G  | ?         | unknown         | original paper?                                                                           | <i>Journal of Materials Science</i> <b>23</b> (1988), 757                 |
| Silvialite      | $\text{Ca}_4\text{Al}_6\text{Si}_6\text{O}_{24}(\text{SO}_4)$                                                | A  | 1998-010  | Australia       | <i>Mineralogical Magazine</i> <b>63</b> (1999), 321                                       |                                                                           |
| Simferite       | $\text{LiMg}(\text{PO}_4)$                                                                                   | Rd | 1989-016  | Ukraine         | <i>Mineralogicheskij Zhurnal</i> <b>27</b> (2005), 112                                    | <i>Doklady Akademii Nauk SSSR</i> <b>307</b> (1989), 1119                 |
| Simmonsite      | $\text{Na}_2\text{LiAlF}_6$                                                                                  | A  | 1997-045  | USA             | <i>American Mineralogist</i> <b>84</b> (1999), 769                                        | <i>Journal of Solid State Chemistry</i> <b>172</b> (2003), 95             |
| Simonellite     | $\text{C}_{19}\text{H}_{24}$                                                                                 | G  | 1919      | Italy           | <i>Atti dell'Accademia delle Scienze di Bologna</i> <b>23</b> (1919), 83                  | <i>Minerals</i> <b>16</b> (2026), 138                                     |
| Simonite        | $\text{TiHgAs}_3\text{S}_6$                                                                                  | A  | 1982-052  | North Macedonia | <i>Zeitschrift für Kristallographie</i> <b>161</b> (1982), 159                            |                                                                           |
| Simonkolleite   | $\text{Zn}_5(\text{OH})_8\text{Cl}_2 \cdot \text{H}_2\text{O}$                                               | A  | 1983-019  | Germany         | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1985), 145                             | <i>Canadian Mineralogist</i> <b>40</b> (2002), 939                        |
| Simplotite      | $\text{CaV}^{4+}_4\text{O}_9 \cdot 5\text{H}_2\text{O}$                                                      | G  | 1956      | USA             | <i>Science</i> <b>123</b> (1956), 1078                                                    | <i>American Mineralogist</i> <b>43</b> (1958), 16                         |
| Simpsonite      | $\text{Al}_4\text{Ta}_3\text{O}_{13}(\text{OH})$                                                             | G  | 1938      | Australia       | <i>Report of the Department of Mines Western Australia</i> <b>93</b> (1938), 88           | <i>Canadian Mineralogist</i> <b>30</b> (1992), 663                        |
| Sincosite       | $\text{Ca}(\text{VO})_2(\text{PO}_4)_2(\text{H}_2\text{O})_3 \cdot \text{H}_2\text{O}$                       | G  | 1922      | Peru            | <i>Journal of the Washington Academy of Sciences</i> <b>12</b> (1922), 195                | <i>Neues Jahrbuch für Mineralogie Abhandlungen</i> <b>196</b> (2020), 261 |
| Sinhalite       | $\text{MgAl}(\text{BO}_4)$                                                                                   | G  | 1952      | Sri Lanka       | <i>Mineralogical Magazine</i> <b>29</b> (1952), 841                                       | <i>Physics and Chemistry of Minerals</i> <b>38</b> (2011), 787            |
| Sinjarite       | $\text{CaCl}_2(\text{H}_2\text{O})_2$                                                                        | A  | 1979-041  | Iraq            | <i>Mineralogical Magazine</i> <b>43</b> (1980), 643                                       | <i>Acta Crystallographica</i> <b>B33</b> (1977), 1608                     |
| Sinkankasite    | $\text{Mn}^{2+}\text{Al}(\text{PO}_3\text{OH})_2(\text{OH})(\text{H}_2\text{O})_4 \cdot 2\text{H}_2\text{O}$ | A  | 1982-078  | USA             | <i>American Mineralogist</i> <b>69</b> (1984), 380                                        | <i>American Mineralogist</i> <b>80</b> (1995), 620                        |
| Sinnerite       | $\text{Cu}_6\text{As}_4\text{S}_9$                                                                           | A  | 1964-020  | Switzerland     | <i>Schweizerische Mineralogische und Petrographische Mitteilungen</i> <b>44</b> (1964), 5 | <i>Canadian Mineralogist</i> <b>51</b> (2013), 851                        |
| Sinoite         | $\text{Si}_2\text{N}_2\text{O}$                                                                              | A  | 1967 s.p. | Pakistan        | <i>Science</i> <b>146</b> (1964), 256                                                     | <i>Zeitschrift für Naturforschung</i> <b>60b</b> (2005), 1231             |
| Sitinakite      | $\text{KNa}_2\text{Ti}_4\text{Si}_2\text{O}_{13}(\text{OH}) \cdot 4\text{H}_2\text{O}$                       | A  | 1989-051  | Russia          | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>121(1)</b> (1992), 94     | <i>Minerals</i> <b>12</b> (2022), 248                                     |

|                |                                                                                                                                                                         |    |           |                                  |                                                                                                                                         |                                                                                       |
|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----------|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Siudaite       | $\text{Na}_8(\text{Mn}^{2+}_2\text{Na})\text{Ca}_6\text{Fe}^{3+}_3\text{Zr}_3\text{NbSi}_{25}\text{O}_{74}(\text{OH})_2\text{Cl}(\text{H}_2\text{O})_5$                 | A  | 2017-092  | Russia                           | <i>Physics and Chemistry of Minerals</i> <b>45</b> (2018), 745                                                                          |                                                                                       |
| Siwaqaite      | $\text{Ca}_6\text{Al}_2(\text{CrO}_4)_3(\text{OH})_{12}(\text{H}_2\text{O})_{26}\cdot 2\text{H}_2\text{O}$                                                              | A  | 2018-150  | Jordan                           | <i>American Mineralogist</i> <b>105</b> (2020), 409                                                                                     |                                                                                       |
| Škáchaite      | $\text{CaCo}(\text{CO}_3)_2$                                                                                                                                            | A  | 2022-143  | Czech Republic                   | <i>Mineralogical Magazine</i> <b>88</b> (2024), 255                                                                                     |                                                                                       |
| Skaergaardite  | PdCu                                                                                                                                                                    | A  | 2003-049  | Denmark (Greenland)              | <i>Mineralogical Magazine</i> <b>68</b> (2004), 615                                                                                     |                                                                                       |
| Skinnerite     | $\text{Cu}_3\text{SbS}_3$                                                                                                                                               | A  | 1973-035  | Denmark (Greenland)              | <i>American Mineralogist</i> <b>59</b> (1974), 889                                                                                      | <i>Canadian Mineralogist</i> <b>33</b> (1995), 655                                    |
| Skippenite     | $\text{Bi}_2\text{Se}_2\text{Te}$                                                                                                                                       | A  | 1986-033  | Canada                           | <i>Canadian Mineralogist</i> <b>25</b> (1987), 625                                                                                      | <i>Canadian Mineralogist</i> <b>42</b> (2004), 835                                    |
| Skłodowskite   | $\text{Mg}(\text{UO}_2)_2(\text{SiO}_3\text{OH})_2(\text{H}_2\text{O})_4\cdot 2\text{H}_2\text{O}$                                                                      | G  | 1924      | Democratic Republic of the Congo | <i>Bulletin de la Société Française de Minéralogie</i> <b>47</b> (1924), 162                                                            | <i>Minerals</i> <b>8</b> (2018), 551                                                  |
| Skogbyite      | $\text{Zr}(\text{Mg}_2\text{Mn}^{3+}_4)\text{O}_8(\text{SiO}_4)$                                                                                                        | A  | 2023-085  | Sweden                           | <i>European Journal of Mineralogy</i> <b>37</b> (2025), 269                                                                             |                                                                                       |
| Skorpionite    | $\text{Ca}_3\text{Zn}_2(\text{PO}_4)_2(\text{CO}_3)(\text{OH})_2(\text{H}_2\text{O})$                                                                                   | A  | 2005-010  | Namibia                          | <i>European Journal of Mineralogy</i> <b>20</b> (2008), 271                                                                             | <i>Journal of Mineralogical and Petrological Sciences</i> <b>114</b> (2019), 178      |
| Skutterudite   | $\text{CoAs}_3$                                                                                                                                                         | G  | 1845      | Norway                           | Handbuch der Bestimmenden Mineralogie. Braumüller and Seidel, Wien (1845), 559                                                          | <i>Acta Crystallographica</i> <b>B27</b> (1971), 2288                                 |
| Slavíkite      | $(\text{H}_3\text{O})_3\text{Mg}_6\text{Fe}_{15}(\text{SO}_4)_{21}(\text{OH})_{18}\cdot 98\text{H}_2\text{O}$                                                           | Rd | 2008 s.p. | Czech Republic                   | <i>Věstník Státní Geologického Ústavu Československé Republiky</i> <b>2</b> (1926), 345                                                 | <i>American Mineralogist</i> <b>95</b> (2010), 11                                     |
| Slavkovite     | $\text{Cu}_{13}(\text{AsO}_4)_6(\text{AsO}_3\text{OH})_4(\text{H}_2\text{O})_{16}\cdot 7\text{H}_2\text{O}$                                                             | A  | 2004-038  | Czech Republic                   | <i>Canadian Mineralogist</i> <b>48</b> (2010), 1157                                                                                     |                                                                                       |
| Slawsonite     | $\text{Sr}(\text{Al}_2\text{Si}_2\text{O}_8)$                                                                                                                           | A  | 1967-026  | USA                              | <i>American Mineralogist</i> <b>62</b> (1977), 31                                                                                       | <i>Minerals</i> <b>11</b> (2021), 1150                                                |
| Šlikite        | $\text{Zn}_2\text{Mg}(\text{CO}_3)_2(\text{OH})_2(\text{H}_2\text{O})_3\cdot \text{H}_2\text{O}$                                                                        | A  | 2018-120  | Czech Republic                   | <i>European Journal of Mineralogy</i> <b>31</b> (2019), 1047                                                                            |                                                                                       |
| Slottaite      | $\text{SrFe}^{3+}_3(\text{PO}_4)(\text{SO}_4)(\text{OH})_6$                                                                                                             | A  | 2024-051  | Germany                          | CNMNC Newsletter 82 - <i>Mineralogical Magazine</i> <b>88</b> (2024), 804; <i>European Journal of Mineralogy</i> <b>36</b> (2024), 1005 |                                                                                       |
| Sluzhenikinite | $\text{Pd}_{15}(\text{Sb}_{7-x}\text{Sn}_x) \quad (3 \leq x \leq 4)$                                                                                                    | A  | 2020-089  | Russia                           | <i>Mineralogical Magazine</i> <b>86</b> (2022), 577                                                                                     |                                                                                       |
| Slyudyankaite  | $\text{Na}_{28}\text{Ca}_4(\text{Si}_{24}\text{Al}_{24}\text{O}_{96})(\text{SO}_4)_6(\text{S}_6)_{1/3}(\text{CO}_2)\cdot 2\text{H}_2\text{O}$                           | A  | 2021-062a | Russia                           | <i>American Mineralogist</i> <b>108</b> (2023), 1805                                                                                    |                                                                                       |
| Smamite        | $\text{Ca}_2\text{Sb}(\text{OH})_4[\text{H}(\text{AsO}_4)_2](\text{H}_2\text{O})_6$                                                                                     | A  | 2019-001  | France                           | <i>American Mineralogist</i> <b>105</b> (2020), 555                                                                                     |                                                                                       |
| Smirnite       | $\text{Bi}^{3+}_2\text{Te}^{4+}\text{O}_5$                                                                                                                              | A  | 1982-104  | Armenia                          | <i>Doklady Akademii Nauk SSSR</i> <b>278</b> (1984), 199                                                                                | <i>Journal of Solid State Chemistry</i> <b>276</b> (2019), 122                        |
| Smirnovskite   | $(\text{Th}, \text{Ca})(\text{PO}_4)\cdot n\text{H}_2\text{O}$                                                                                                          | Q  | 1957      | Russia                           | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>86</b> (1957), 607                                                        | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>122(3)</b> (1993), 79 |
| Smithite       | $\text{AgAsS}_2$                                                                                                                                                        | G  | 1905      | Switzerland                      | <i>Mineralogical Magazine</i> <b>14</b> (1905), 72                                                                                      | <i>Naturwissenschaften</i> <b>51</b> (1964), 35                                       |
| Smithsonite    | $\text{Zn}(\text{CO}_3)$                                                                                                                                                | G  | 1832      | United Kingdom                   | Traité Élémentaire de Minéralogie, 2nd ed. Verdière, Paris (1832), 354                                                                  | <i>Zeitschrift für Kristallographie</i> <b>156</b> (1981), 233                        |
| Smolyaninovite | $\text{Co}_3\text{Fe}^{3+}_2(\text{AsO}_4)_4\cdot 11\text{H}_2\text{O}$                                                                                                 | G  | 1956      | Russia                           | <i>Doklady Akademii Nauk SSSR</i> <b>109</b> (1956), 849                                                                                | <i>Mineralogical Magazine</i> <b>41</b> (1977), 385                                   |
| Smrkovecité    | $\text{Bi}_2\text{O}(\text{PO}_4)(\text{OH})$                                                                                                                           | A  | 1993-040  | Czech Republic                   | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1996), 97                                                                            |                                                                                       |
| Smythite       | $(\text{Fe}, \text{Ni})_{3+x}\text{S}_4 \quad (x \approx 0-0.3)$                                                                                                        | G  | 1956      | USA                              | <i>Journal of the American Chemical Society</i> <b>78</b> (1956), 2017                                                                  | <i>American Mineralogist</i> <b>57</b> (1972), 1571                                   |
| Sobolevite     | $\text{Na}_6(\text{Na}_2\text{Ca})(\text{NaCaMn})\text{Na}_2\text{Ti}_2\text{Na}_2(\text{TiMn})(\text{Si}_2\text{O}_7)_2(\text{PO}_4)_4\text{O}_2(\text{OF})\text{F}_2$ | Rd | 1982-042  | Russia                           | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>112</b> (1983), 456                                                       | <i>Canadian Mineralogist</i> <b>43</b> (2005), 1527                                   |

|               |                                                                                                                                     |   |           |                                  |                                                                                                                                        |                                                                                        |
|---------------|-------------------------------------------------------------------------------------------------------------------------------------|---|-----------|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
| Sobolevskite  | PdBi                                                                                                                                | A | 1973-042  | Russia                           | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>104</b> (1975), 568                                                      | <i>Canadian Mineralogist</i> <b>28</b> (1990), 751                                     |
| Sodalite      | Na <sub>4</sub> (Si <sub>3</sub> Al <sub>3</sub> )O <sub>12</sub> Cl                                                                | G | 1811      | Denmark (Greenland)              | <i>Journal of Natural Philosophy, Chemistry and the Arts</i> <b>29</b> (1811), 285                                                     | <i>American Mineralogist</i> <b>89</b> (2004), 359                                     |
| Soddyite      | (UO <sub>2</sub> ) <sub>2</sub> (SiO <sub>4</sub> )(H <sub>2</sub> O) <sub>2</sub>                                                  | G | 1922      | Democratic Republic of the Congo | <i>Comptes Rendus de l'Académie des Sciences de Paris</i> <b>174</b> (1922), 1066                                                      | <i>Minerals</i> <b>8</b> (2018), 551                                                   |
| Sofiite       | Zn <sub>2</sub> (Se <sup>4+</sup> O <sub>3</sub> )Cl <sub>2</sub>                                                                   | A | 1987-028  | Russia                           | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>118(1)</b> (1989), 65                                                  | <i>Mineralogical Magazine</i> <b>56</b> (1992), 241                                    |
| Sogdianite    | KZr <sub>2</sub> Li <sub>3</sub> Si <sub>12</sub> O <sub>30</sub>                                                                   | A | 1971 s.p. | Tajikistan                       | <i>Doklady Akademii Nauk SSSR</i> <b>182</b> (1968), 1176                                                                              | <i>Canadian Mineralogist</i> <b>38</b> (2000), 853                                     |
| Söhngeite     | Ga(OH) <sub>3</sub>                                                                                                                 | A | 1965-022  | Namibia                          | <i>Naturwissenschaften</i> <b>52</b> (1965), 493                                                                                       | <i>Physics and Chemistry of Minerals</i> <b>43</b> (2016), 515                         |
| Sokolovaite   | CsLi <sub>2</sub> AlSi <sub>4</sub> O <sub>10</sub> F <sub>2</sub>                                                                  | A | 2004-012  | Tajikistan                       | <i>New Data on Minerals</i> <b>41</b> (2006), 5                                                                                        |                                                                                        |
| Solongoite    | Ca <sub>2</sub> B <sub>3</sub> O <sub>4</sub> (OH) <sub>4</sub> Cl                                                                  | A | 1973-017  | Russia                           | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>103</b> (1974), 117                                                      | <i>Soviet Physics - Crystallography</i> <b>22</b> (1977), 356                          |
| Sombrereteite | NaCa <sub>3</sub> (Al <sub>7</sub> Si <sub>9</sub> )O <sub>32</sub>                                                                 | A | 2025-095a | Mexico (meteorite)               | CNMNC Newsletter 91 - <i>Mineralogical Magazine</i> <b>90</b> (2026), xxx; <i>European Journal of Mineralogy</i> <b>38</b> (2026), 347 |                                                                                        |
| Somersetite   | Pb <sub>8</sub> O(OH) <sub>4</sub> (CO <sub>3</sub> ) <sub>5</sub>                                                                  | A | 2017-024  | United Kingdom                   | <i>Mineralogical Magazine</i> <b>82</b> (2018), 1211                                                                                   |                                                                                        |
| Sonolite      | Mn <sup>2+</sup> <sub>9</sub> (SiO <sub>4</sub> ) <sub>4</sub> (OH) <sub>2</sub>                                                    | A | 1967 s.p. | Japan                            | <i>Memoirs of the Faculty of Science, Kyushu University, Series D: Geology</i> <b>14</b> (1963), 1                                     | <i>Mineralogical Magazine</i> <b>58</b> (1994), 325                                    |
| Sonoraite     | Fe <sup>3+</sup> <sub>2</sub> (Te <sup>4+</sup> O <sub>3</sub> ) <sub>2</sub> (OH) <sub>2</sub> (H <sub>2</sub> O)·H <sub>2</sub> O | A | 1968-001  | Mexico                           | <i>American Mineralogist</i> <b>53</b> (1968), 1828                                                                                    | <i>Tschermaks Mineralogische und Petrographische Mitteilungen</i> <b>14</b> (1970), 27 |
| Sopcheite     | Ag <sub>4</sub> Pd <sub>3</sub> Te <sub>4</sub>                                                                                     | A | 1980-101  | Russia                           | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>111</b> (1982), 114                                                      | <i>European Journal of Mineralogy</i> <b>29</b> (2017), 603                            |
| Sorbyite      | Pb <sub>9</sub> Cu(Sb,As) <sub>11</sub> S <sub>26</sub>                                                                             | A | 1966-032  | Canada                           | <i>Canadian Mineralogist</i> <b>9</b> (1967), 191                                                                                      | <i>Bulletin de Minéralogie</i> <b>105</b> (1982), 3                                    |
| Sørensenite   | Na <sub>4</sub> Be <sub>2</sub> Sn(Si <sub>3</sub> O <sub>9</sub> ) <sub>2</sub> (H <sub>2</sub> O) <sub>2</sub>                    | A | 1965-006  | Denmark (Greenland)              | <i>Meddelelser om Grønland</i> <b>181</b> (1965), 1                                                                                    | <i>Acta Crystallographica</i> <b>B32</b> (1976), 2553                                  |
| Sorosite      | Cu <sub>1+x</sub> (Sn,Sb)                                                                                                           | A | 1994-047  | Russia                           | <i>American Mineralogist</i> <b>83</b> (1998), 901                                                                                     |                                                                                        |
| Sosedkoite    | K <sub>5</sub> Al <sub>2</sub> Ta <sub>22</sub> O <sub>60</sub>                                                                     | A | 1981-014  | Russia                           | <i>Doklady Akademii Nauk SSSR</i> <b>264</b> (1982), 442                                                                               |                                                                                        |
| Součekite     | CuPbBi(S,Se) <sub>3</sub>                                                                                                           | A | 1976-017  | Czech Republic                   | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1979), 289                                                                          |                                                                                        |
| Souzalite     | Mg <sub>3</sub> Al <sub>4</sub> (PO <sub>4</sub> ) <sub>4</sub> (OH) <sub>6</sub> (H <sub>2</sub> O) <sub>2</sub>                   | G | 1949      | Brazil                           | <i>American Mineralogist</i> <b>34</b> (1949), 83                                                                                      | <i>European Journal of Mineralogy</i> <b>15</b> (2003), 719                            |
| Spadaite      | MgSiO <sub>2</sub> (OH) <sub>2</sub> ·H <sub>2</sub> O (?)                                                                          | Q | 1843      | Italy                            | <i>Gelehrte Anzeigen der Königlich Bayerischen Akademie der Wissenschaften</i> <b>17</b> (1843), 945                                   | <i>American Mineralogist</i> <b>16</b> (1931), 231                                     |
| Spaltiite     | Tl <sub>2</sub> Cu <sub>2</sub> As <sub>2</sub> S <sub>5</sub>                                                                      | A | 2014-012  | Switzerland                      | <i>European Journal of Mineralogy</i> <b>38</b> (2026), 27                                                                             |                                                                                        |
| Spangolite    | Cu <sub>6</sub> Al(SO <sub>4</sub> )(OH) <sub>12</sub> Cl·3H <sub>2</sub> O                                                         | G | 1890      | USA                              | <i>American Journal of Science</i> <b>39</b> (1890), 370                                                                               | <i>American Mineralogist</i> <b>78</b> (1993), 649                                     |

|                 |                                                                                                                                                                                     |    |           |                 |                                                                                                                                        |                                                                |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----------|-----------------|----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|
| Spanoite        | $\text{Ti}_2[(\text{UO}_2)_2(\text{V}_2\text{O}_8)]$                                                                                                                                | A  | 2025-086  | USA             | CNMNC Newsletter 89 - <i>Mineralogical Magazine</i> <b>90</b> (2026), 481; <i>European Journal of Mineralogy</i> <b>38</b> (2026), 117 |                                                                |
| Spencerite      | $\text{Zn}_4(\text{PO}_4)_2(\text{OH})_2(\text{H}_2\text{O})_2 \cdot \text{H}_2\text{O}$                                                                                            | G  | 1916      | Canada          | <i>Mineralogical Magazine</i> <b>18</b> (1916), 76                                                                                     | <i>Mineralogical Magazine</i> <b>38</b> (1972), 687            |
| Sperlingite     | $(\text{H}_2\text{O})\text{K}(\text{Mn}^{2+}\text{Fe}^{3+})(\text{Al}_2\text{Ti})(\text{PO}_4)_4[\text{O}(\text{OH})][(\text{H}_2\text{O})_9(\text{OH})] \cdot 4\text{H}_2\text{O}$ | A  | 2023-120  | Germany         | <i>Mineralogical Magazine</i> <b>88</b> (2024), 576                                                                                    |                                                                |
| Sperrylite      | $\text{PtAs}_2$                                                                                                                                                                     | G  | 1889      | Canada          | <i>American Journal of Science</i> <b>137</b> (1889), 67                                                                               | <i>Canadian Mineralogist</i> <b>17</b> (1979), 117             |
| Spertiniite     | $\text{Cu}(\text{OH})_2$                                                                                                                                                            | A  | 1980-033  | Canada          | <i>Canadian Mineralogist</i> <b>19</b> (1981), 337                                                                                     | <i>Acta Crystallographica</i> <b>C46</b> (1990), 2279          |
| Spessartine     | $\text{Mn}^{2+}_3\text{Al}_2(\text{SiO}_4)_3$                                                                                                                                       | G  | 1832      | Germany         | Traité Élémentaire de Minéralogie, 2nd ed. Verdière, Paris (1832), 52                                                                  | <i>Acta Crystallographica</i> <b>B74</b> (2018), 104           |
| Sphaerobrandite | $\text{Be}_3(\text{SiO}_4)(\text{OH})_2$                                                                                                                                            | Rd | 2003 s.p. | Russia / Norway | <i>Trudy Instituta Mineralogii Geokhimii i Kristallokhimii Redkikh Elementov</i> <b>1</b> (1957), 64                                   | <i>European Journal of Mineralogy</i> <b>15</b> (2003), 157    |
| Sphaerobismoite | $\text{Bi}_2\text{O}_3$                                                                                                                                                             | A  | 1993-009  | Germany         | <i>Aufschluss</i> <b>46</b> (1995), 245                                                                                                | <i>Acta Crystallographica</i> <b>C44</b> (1988), 587           |
| Sphalerite      | $\text{ZnS}$                                                                                                                                                                        | A  | 1980 s.p. | unknown         | Generum et Specierum Mineralium, Secundum Ordines Naturales Digestorum Synopsis. Anton, Halle (1847), 13                               | <i>Minerals</i> <b>10</b> (2020), 822                          |
| Spheniscidite   | $(\text{NH}_4)\text{Fe}^{3+}_2(\text{PO}_4)_2(\text{OH})(\text{H}_2\text{O}) \cdot \text{H}_2\text{O}$                                                                              | A  | 1977-029  | Antarctica      | <i>Mineralogical Magazine</i> <b>50</b> (1986), 291                                                                                    | <i>Solid State Sciences</i> <b>12</b> (2010), 1816             |
| Spherochalcite  | $\text{Co}(\text{CO}_3)$                                                                                                                                                            | Rd | 1962 s.p. | Germany         | <i>Jahrbuch für das Berg- und Hüttenwesen im Königreiche Sachsen</i> (1877), 42                                                        | <i>Physics and Chemistry of Minerals</i> <b>45</b> (2018), 59  |
| Spinel          | $\text{MgAl}_2\text{O}_4$                                                                                                                                                           | G  | 1546 ?    | unknown         | original paper?                                                                                                                        | <i>American Mineralogist</i> <b>84</b> (1999), 299             |
| Spionkopite     | $\text{Cu}_{39}\text{S}_{28}$                                                                                                                                                       | A  | 1978-023  | Canada          | <i>Canadian Mineralogist</i> <b>18</b> (1980), 511                                                                                     | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1981), 489  |
| Spiridonovite   | $(\text{Cu}_{1-x}\text{Ag}_x)_2\text{Te} \quad (x \approx 0.4)$                                                                                                                     | A  | 2018-136  | USA             | <i>Minerals</i> <b>9</b> (2019), 194                                                                                                   |                                                                |
| Spiroffite      | $\text{Mn}^{2+}_2\text{Te}^{4+}_3\text{O}_8$                                                                                                                                        | A  | 1967 s.p. | Mexico          | <i>Mineralogical Society of America, Special Paper</i> <b>1</b> (1963), 305                                                            | <i>Canadian Mineralogist</i> <b>34</b> (1996), 821             |
| Spodumene       | $\text{LiAlSi}_2\text{O}_6$                                                                                                                                                         | A  | 1962 s.p. | Sweden          | <i>Allgemeines Journal der Chemie</i> <b>4</b> (1800), 28                                                                              | <i>Canadian Mineralogist</i> <b>41</b> (2003), 521             |
| Spriggite       | $\text{Pb}_3(\text{UO}_2)_6\text{O}_8(\text{OH})_2(\text{H}_2\text{O})_3$                                                                                                           | A  | 2002-014  | Australia       | <i>American Mineralogist</i> <b>89</b> (2004), 339                                                                                     |                                                                |
| Springcreekite  | $\text{BaV}^{3+}_3(\text{PO}_4)(\text{PO}_3\text{OH})(\text{OH})_6$                                                                                                                 | A  | 1998-048  | Australia       | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1999), 529                                                                          |                                                                |
| Spryite         | $\text{Ag}_8(\text{As}^{3+}_{0.5}\text{As}^{5+}_{0.5})\text{S}_6$                                                                                                                   | A  | 2015-116  | Peru            | <i>Physics and Chemistry of Minerals</i> <b>44</b> (2017), 75                                                                          | <i>Minerals</i> <b>11</b> (2021), 286                          |
| Spurrite        | $\text{Ca}_5(\text{SiO}_4)_2(\text{CO}_3)$                                                                                                                                          | G  | 1908      | Mexico          | <i>American Journal of Science</i> <b>176</b> (1908), 545                                                                              | <i>Physics and Chemistry of Minerals</i> <b>50</b> (2023), 33  |
| Srebrodolskite  | $\text{Ca}_2\text{Fe}^{3+}_2\text{O}_5$                                                                                                                                             | A  | 1984-050  | Russia          | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>114</b> (1985), 195                                                      | <i>Physics and Chemistry of Minerals</i> <b>46</b> (2019), 271 |
| Šreinite        | $\text{Pb}(\text{UO}_2)_4(\text{BiO})_3(\text{PO}_4)_2(\text{OH})_7 \cdot 4\text{H}_2\text{O}$                                                                                      | A  | 2004-022  | Czech Republic  | <i>Neues Jahrbuch für Mineralogie Abhandlungen</i> <b>184</b> (2007), 197                                                              |                                                                |
| Srilankite      | $\text{TiO}_2$                                                                                                                                                                      | Rd | 2022 s.p. | Sri Lanka       | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1983), 151                                                                          | <i>Physics and Chemistry of Minerals</i> <b>32</b> (2005), 504 |
| Stalderite      | $\text{TiCu}(\text{Zn}, \text{Fe}, \text{Hg})_2\text{As}_2\text{S}_6$                                                                                                               | A  | 1987-024  | Switzerland     | <i>Schweizerische Mineralogische und Petrographische Mitteilungen</i> <b>75</b> (1995), 337                                            |                                                                |

|                    |                                                                                                                                                      |    |           |                     |                                                                                                                                         |                                                                                   |
|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----------|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| Staněkite          | $\text{Fe}^{3+}\text{Mn}^{2+}(\text{PO}_4)\text{O}$                                                                                                  | A  | 1994-045  | Namibia / France    | <i>European Journal of Mineralogy</i> <b>9</b> (1997), 475                                                                              | <i>European Journal of Mineralogy</i> <b>18</b> (2006), 113                       |
| Stanevansite       | $\text{Mg}(\text{C}_2\text{H}_3\text{O}_3)_2(\text{H}_2\text{O})_2$                                                                                  | A  | 2022-085  | USA                 | <i>Canadian Journal of Mineralogy and Petrology</i> <b>62</b> (2024), 153                                                               |                                                                                   |
| Stanfieldite       | $\text{Ca}_4\text{Mg}_5(\text{PO}_4)_6$                                                                                                              | A  | 1966-045  | USA                 | <i>Science</i> <b>158</b> (1967), 910                                                                                                   | <i>Crystals</i> <b>10</b> (2020), 464                                             |
| Stangersite        | $\text{SnGeS}_3$                                                                                                                                     | A  | 2019-092  | Czech Republic      | <i>Journal of Geosciences</i> <b>65</b> (2020), 141                                                                                     |                                                                                   |
| Stankeithite       | $\text{MnMnTe}^{4+}_4\text{O}_{10}$                                                                                                                  | A  | 2024-049  | Mexico              | CNMNC Newsletter 82 - <i>Mineralogical Magazine</i> <b>88</b> (2024), 804; <i>European Journal of Mineralogy</i> <b>36</b> (2024), 1005 |                                                                                   |
| Stanleyite         | $\text{V}^{4+}\text{O}(\text{SO}_4)(\text{H}_2\text{O})_5\cdot\text{H}_2\text{O}$                                                                    | A  | 1980-042  | Peru                | <i>Mineralogical Magazine</i> <b>45</b> (1982), 163                                                                                     | <i>Acta Crystallographica</i> <b>B36</b> (1980), 249                              |
| Stannite           | $\text{Cu}_2\text{FeSnS}_4$                                                                                                                          | G  | 1832      | United Kingdom      | Traité Élémentaire de Minéralogie, 2nd ed. Verdière, Paris (1832), 416                                                                  | <i>Canadian Mineralogist</i> <b>41</b> (2003), 639                                |
| Stannoidite        | $\text{Cu}_8(\text{Fe,Zn})_3\text{Sn}_2\text{S}_{12}$                                                                                                | A  | 1968-004a | Japan               | <i>Bulletin of the National Science Museum, Tokyo</i> <b>12</b> (1969), 165                                                             | <i>Zeitschrift für Kristallographie</i> <b>144</b> (1976), 145                    |
| Stannopalladinite  | $(\text{Pd,Cu})_3\text{Sn}$                                                                                                                          | G  | 1947      | Russia              | <i>Doklady Akademii Nauk SSSR</i> <b>58</b> (1947), 1137                                                                                | <i>Mineralogical Magazine</i> <b>87</b> (2023), 773                               |
| Starkeyite         | $\text{Mg}(\text{SO}_4)(\text{H}_2\text{O})_4$                                                                                                       | A  | 1970-014a | USA                 | <i>Canadian Mineralogist</i> <b>12</b> (1973), 229                                                                                      | <i>Acta Crystallographica</i> <b>17</b> (1964), 863                               |
| Staročeskéite      | $\text{Ag}_{0.70}\text{Pb}_{1.60}(\text{Bi}_{1.35}\text{Sb}_{1.35})\text{S}_6$                                                                       | A  | 2016-101  | Czech Republic      | <i>Mineralogical Magazine</i> <b>82</b> (2018), 993                                                                                     |                                                                                   |
| Starovaite         | $\text{KCu}_5\text{O}(\text{VO}_4)_3$                                                                                                                | A  | 2011-085  | Russia              | <i>European Journal of Mineralogy</i> <b>25</b> (2013), 91                                                                              |                                                                                   |
| Staurolite         | $\text{Fe}^{2+}_2\text{Al}_9\text{Si}_4\text{O}_{23}(\text{OH})$                                                                                     | G  | 1792      | unknown             | Manuel du Minéralogiste. Cuchet, Paris (1792), 298                                                                                      | <i>American Mineralogist</i> <b>87</b> (2002), 1164                               |
| Stavelotite-(La)   | $\text{La}_3\text{Mn}^{2+}_3\text{Cu}^{2+}(\text{Mn}^{3+}, \text{Fe}^{3+}, \text{Mn}^{4+})_{26}(\text{Si}_2\text{O}_7)_6\text{O}_{30}$               | A  | 2004-014  | Belgium             | <i>European Journal of Mineralogy</i> <b>17</b> (2005), 703                                                                             |                                                                                   |
| Steacyite          | $\text{K}_{0.3}(\text{Na,Ca})_2\text{ThSi}_8\text{O}_{20}$                                                                                           | A  | 1981 s.p. | Canada              | <i>Canadian Mineralogist</i> <b>20</b> (1982), 59                                                                                       | <i>Acta Crystallographica</i> <b>B28</b> (1972), 1994                             |
| Steedeite          | $\text{NaMn}_2[\text{Si}_3\text{BO}_9](\text{OH})_2$                                                                                                 | A  | 2013-052  | Canada              | <i>Canadian Mineralogist</i> <b>52</b> (2014), 47                                                                                       |                                                                                   |
| Steenstrupine-(Ce) | $\text{Na}_{14}\text{Ce}_6\text{Mn}^{2+}_2\text{Fe}^{3+}_2\text{Zr}(\text{PO}_4)_7\text{Si}_{12}\text{O}_{36}(\text{OH})_2\cdot 3\text{H}_2\text{O}$ | Rn | 1987 s.p. | Denmark (Greenland) | <i>Mineralogical Magazine</i> <b>5</b> (1882), 49                                                                                       | <i>European Journal of Mineralogy</i> <b>29</b> (2017), 871                       |
| Stefanweissite     | $(\text{Ca}, \text{REE})_2\text{Zr}_2(\text{Nb,Ti})(\text{Ti,Nb})_2\text{Fe}^{2+}\text{O}_{14}$                                                      | A  | 2018-020  | Germany             | <i>Mineralogical Magazine</i> <b>83</b> (2019), 607                                                                                     |                                                                                   |
| Steigerite         | $\text{Al}(\text{VO}_4)\cdot 3\text{H}_2\text{O}$                                                                                                    | G  | 1935      | USA                 | <i>American Mineralogist</i> <b>20</b> (1935), 769                                                                                      | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>116</b> (1987), 100 |
| Steinhardtite      | Al                                                                                                                                                   | A  | 2014-036  | Russia (meteorite)  | <i>American Mineralogist</i> <b>99</b> (2014), 2433                                                                                     |                                                                                   |
| Steiningerite      | $\text{Ba}_2\text{Zr}_2(\text{Si}_4\text{O}_{12})\text{O}_2$                                                                                         | A  | 2024-016  | Germany             | <i>Mineralogical Magazine</i> <b>89</b> (2025), 819                                                                                     |                                                                                   |
| Steinmetzite       | $\text{Zn}_2\text{Fe}^{3+}(\text{PO}_4)_2(\text{OH})(\text{H}_2\text{O})_3$                                                                          | A  | 2015-081  | Germany             | <i>Mineralogical Magazine</i> <b>81</b> (2017), 329                                                                                     |                                                                                   |
| Steklite           | $\text{KAl}(\text{SO}_4)_2$                                                                                                                          | A  | 2011-041  | Russia              | <i>Zapiski Rossiyskogo Mineralogicheskogo Obshchestva</i> <b>141(4)</b> (2012), 36                                                      | <i>Crystals</i> <b>10</b> (2020), 1062                                            |
| Stellerite         | $\text{Ca}_4(\text{Si}_{28}\text{Al}_8)\text{O}_{72}\cdot 28\text{H}_2\text{O}$                                                                      | A  | 1997 s.p. | Russia              | <i>Bulletin International de l'Académie des Sciences de Cracovie</i> (1909), 344                                                        | <i>Physics and Chemistry of Minerals</i> <b>49</b> (2022), 25                     |
| Stenhuggarite      | $\text{CaFe}^{3+}\text{Sb}^{3+}\text{As}^{3+}_2\text{O}_7$                                                                                           | A  | 1966-037  | Sweden              | <i>Arkiv för Mineralogi och Geologi</i> <b>5</b> (1970), 55                                                                             | <i>Acta Crystallographica</i> <b>B33</b> (1977), 1807                             |
| Stenonite          | $\text{Sr}_2\text{Al}(\text{CO}_3)\text{F}_5$                                                                                                        | A  | 1967 s.p. | Denmark (Greenland) | <i>Meddelelser om Grønland</i> <b>169</b> (1962), 1                                                                                     | <i>Canadian Mineralogist</i> <b>22</b> (1984), 245                                |
| Stepanovite        | $\text{Na}[\text{Mg}(\text{H}_2\text{O})_6]\text{Fe}^{3+}(\text{C}_2\text{O}_4)_3\cdot 3\text{H}_2\text{O}$                                          | A  | 1967 s.p. | Russia              | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>82</b> (1953), 311                                                        | <i>Physics and Chemistry of Minerals</i> <b>43</b> (2016), 287                    |

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|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----------|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| Stephanite         | $\text{Ag}_5\text{SbS}_4$                                                                                                                            | G  | 1845      | Germany               | Handbuch der Bestimmenden Mineralogie. Braumüller and Seidel, Wien (1845), 563                                                        | <i>Mineralogical Magazine</i> <b>73</b> (2009), 17                                          |
| Štěpíte            | $\text{U}(\text{AsO}_3\text{OH})_2(\text{H}_2\text{O})_2 \cdot 2\text{H}_2\text{O}$                                                                  | A  | 2012-006  | Czech Republic        | <i>Mineralogical Magazine</i> <b>77</b> (2013), 137                                                                                   |                                                                                             |
| Stercorite         | $(\text{NH}_4)\text{Na}(\text{PO}_3\text{OH})(\text{H}_2\text{O})_4$                                                                                 | G  | 1850      | Namibia               | <i>Quarterly Journal of the Chemical Society</i> <b>2</b> (1850), 70                                                                  | <i>Acta Crystallographica</i> <b>B30</b> (1974), 504                                        |
| Stergiouite        | $\text{CaZn}_2(\text{AsO}_4)_2(\text{H}_2\text{O})_4$                                                                                                | A  | 2018-051a | Greece                | <i>Mineralogy and Petrology</i> <b>114</b> (2020), 319                                                                                |                                                                                             |
| Sterlinghillite    | $\text{Mn}^{2+}_3(\text{AsO}_4)_2 \cdot 3\text{H}_2\text{O}$                                                                                         | A  | 1980-007  | USA                   | <i>American Mineralogist</i> <b>66</b> (1981), 182                                                                                    | <i>Bulletin of the National Science Museum, Tokyo, Ser. C</i> <b>26</b> (2000), 1           |
| Sternbergite       | $\text{AgFe}_2\text{S}_3$                                                                                                                            | G  | 1828      | Czech Republic        | <i>Transactions of the Royal Society of Edinburgh</i> <b>11</b> (1828), 1                                                             | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1987), 458                               |
| Steropesite        | $\text{Ti}_3\text{BiCl}_6$                                                                                                                           | A  | 2008-014  | Italy                 | <i>Canadian Mineralogist</i> <b>47</b> (2009), 373                                                                                    |                                                                                             |
| Sterryite          | $\text{Cu}(\text{Ag}, \text{Cu})_3\text{Pb}_{19}(\text{Sb}, \text{As})_{22}(\text{As})_2\text{S}_{56}$                                               | A  | 1966-020  | Canada                | <i>Canadian Mineralogist</i> <b>9</b> (1967), 191                                                                                     | <i>Acta Crystallographica</i> <b>B68</b> (2012), 480                                        |
| Stetefeldtite      | $\text{Ag}_2\text{Sb}_2(\text{O}, \text{OH})_7$                                                                                                      | Q  | 2013 s.p. | USA                   | <i>Berg- und Hüttenmännische Zeitung</i> <b>26</b> (1867), 253                                                                        |                                                                                             |
| Stetindite-(Ce)    | $\text{Ce}(\text{SiO}_4)$                                                                                                                            | Rn | 2008-035  | Norway                | <i>Neues Jahrbuch für Mineralogie Abhandlungen</i> <b>186</b> (2009), 195                                                             | <i>Inorganic Chemistry</i> <b>60</b> (2021), 718                                            |
| Steudelite         | $\text{Na}_3\text{□}(\text{K}_{17}\text{Ca}_7)\text{Ca}_4(\text{Al}_{24}\text{Si}_{24}\text{O}_{96})(\text{SO}_3)_6\text{F}_6(\text{H}_2\text{O})_4$ | A  | 2021-007  | Italy                 | <i>Physics and Chemistry of Minerals</i> <b>49</b> (2022), 1                                                                          |                                                                                             |
| Stevensite         | $(\text{Ca}, \text{Na})_x\text{Mg}_{3-y}\text{Si}_4\text{O}_{10}(\text{OH})_2$                                                                       | Q  | 1873      | USA                   | <i>American Journal of Science</i> <b>6</b> (1873), 22                                                                                | <i>American Mineralogist</i> <b>44</b> (1959), 342                                          |
| Steverustite       | $\text{Pb}^{2+}_5(\text{OH})_5[\text{Cu}^{1+}(\text{S}^{6+}_3\text{O}_3\text{S}^{2-}_2)_3](\text{H}_2\text{O})_2$                                    | A  | 2008-021  | United Kingdom        | <i>Mineralogical Magazine</i> <b>73</b> (2009), 235                                                                                   |                                                                                             |
| Stewartite         | $\text{Mn}^{2+}\text{Fe}^{3+}_2(\text{PO}_4)_2(\text{OH})_2(\text{H}_2\text{O})_6 \cdot 2\text{H}_2\text{O}$                                         | G  | 1912      | USA                   | <i>Journal of the Washington Academy of Sciences</i> <b>2</b> (1912), 143                                                             | <i>American Mineralogist</i> <b>59</b> (1974), 1272                                         |
| Stibarsen          | $\text{SbAs}$                                                                                                                                        | A  | 1982 s.p. | Sweden                | <i>Geologiska Föreningens i Stockholm Förhandlingar</i> <b>63</b> (1941), 424                                                         | <i>American Mineralogist</i> <b>76</b> (1991), 257                                          |
| Stibiconite        | $\text{Sb}^{3+}\text{Sb}^{5+}_2\text{O}_6(\text{OH})$                                                                                                | Q  | 2013 s.p. | Germany               | Traité Élémentaire de Minéralogie, 2nd ed. Carilian Jeune, Paris (1837), 616                                                          |                                                                                             |
| Stibioclaudetite   | $\text{AsSbO}_3$                                                                                                                                     | A  | 2007-028  | Namibia               | <i>Mineralogical Record</i> <b>40</b> (2009), 209                                                                                     |                                                                                             |
| Stibiocolumbite    | $\text{Sb}^{3+}\text{NbO}_4$                                                                                                                         | G  | 1915      | USA                   | A System of Mineralogy, 3rd Appendix. Wiley, New York (1915), 74                                                                      | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (2002), 145                               |
| Stibicolusite      | $\text{Cu}_{13}\text{V}(\text{Sb}, \text{Sn}, \text{As})_3\text{S}_{16}$                                                                             | A  | 1991-043  | Uzbekistan / Bulgaria | <i>Doklady Akademii Nauk</i> <b>324</b> (1992), 411                                                                                   | <i>Resource Geology</i> <b>49</b> (1999), 75                                                |
| Stibiogoldfieldite | $\text{Cu}_6\text{Cu}_6(\text{Sb}_2\text{Te}_2)\text{S}_{13}$                                                                                        | A  | 2020-104  | USA                   | <i>Mineralogical Magazine</i> <b>86</b> (2022), 168                                                                                   | <i>Mineralogical Magazine</i> <b>88</b> (2024), 40                                          |
| Stibiopalladinite  | $\text{Pd}_5\text{Sb}_2$                                                                                                                             | A  | 1980 s.p. | South Africa          | The Platinum Deposits and Mines of South Africa. Oliver and Boyd, Edinburgh (1929)                                                    | <i>Journal of the Less-Common Metals</i> <b>22</b> (1970), 445                              |
| Stibiosegnitite    | $\text{Pb}(\text{Fe}^{3+}_{2.5}\text{Sb}^{5+}_{0.5})(\text{AsO}_4)_2(\text{OH})_6$                                                                   | A  | 2024-065  | Russia                | CNMNC Newsletter 83 - <i>Mineralogical Magazine</i> <b>89</b> (2025), 185; <i>European Journal of Mineralogy</i> <b>37</b> (2025), 75 | <a href="https://doi.org/10.1180/mgm.2025.10150">https://doi.org/10.1180/mgm.2025.10150</a> |
| Stibiotantalite    | $\text{Sb}^{3+}\text{TaO}_4$                                                                                                                         | G  | 1893      | Australia             | <i>Transactions and Proceedings and Report of the Royal Society of South Australia</i> <b>17</b> (1893), 127                          | <i>Canadian Journal of Mineralogy and Petrology</i> <b>61</b> (2023), 965                   |
| Stibioústalečite   | $\text{Cu}_6\text{Cu}_6(\text{Sb}_2\text{Te}_2)\text{Se}_{13}$                                                                                       | A  | 2021-071  | Czech Republic        | <i>Journal of Geosciences</i> <b>67</b> (2022), 289                                                                                   | <i>Mineralogical Magazine</i> <b>88</b> (2024), 127                                         |
| Stibivanite        | $\text{Sb}^{3+}_2\text{V}^{4+}\text{O}_5$                                                                                                            | A  | 1980-020  | Canada                | <i>Canadian Mineralogist</i> <b>18</b> (1980), 329                                                                                    | <i>Canadian Mineralogist</i> <b>27</b> (1989), 625                                          |
| Stibnite           | $\text{Sb}_2\text{S}_3$                                                                                                                              | G  | 1832      | unknown               | Traité Élémentaire de Minéralogie, 2nd ed. Verdière, Paris (1832), 421                                                                | <i>Neues Jahrbuch für Mineralogie Abhandlungen</i> <b>189</b> (2012), 177                   |

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| Stichtite         | $\text{Mg}_6\text{Cr}_2(\text{OH})_{16}(\text{CO}_3) \cdot 4\text{H}_2\text{O}$                                                                                         | Rd | 1910      | Australia                           | Catalog of the Minerals of Tasmania, 3rd ed. Vail, Hobart (1910), 167                                                                  | <i>American Mineralogist</i> <b>96</b> (2011), 179                                      |
| Stilbite-Ca       | $\text{NaCa}_4(\text{Si}_{27}\text{Al}_9)\text{O}_{72} \cdot 28\text{H}_2\text{O}$                                                                                      | A  | 1997 s.p. | Iceland / Germany / France / Norway | Traité de Minéralogie, Vol. 3. Chez Louis, Paris (1801), 161                                                                           | <i>Physics and Chemistry of Minerals</i> <b>48</b> (202), 4                             |
| Stilbite-Na       | $\text{Na}_9(\text{Si}_{27}\text{Al}_9)\text{O}_{72} \cdot 28\text{H}_2\text{O}$                                                                                        | A  | 1997 s.p. | Italy                               | <i>Bulletin de Minéralogie</i> <b>101</b> (1978), 368                                                                                  | <i>Microporous and Mesoporous Materials</i> <b>253</b> (2017), 239                      |
| Stilleite         | ZnSe                                                                                                                                                                    | G  | 1956      | Democratic Republic of the Congo    | Geotektonisches Symposium zu Ehren von Hans Stille (1956), 481                                                                         | <i>Crystallography Reports</i> <b>42</b> (1997), 592                                    |
| Stillwaterite     | $\text{Pd}_8\text{As}_3$                                                                                                                                                | A  | 1974-029  | USA                                 | <i>Canadian Mineralogist</i> <b>13</b> (1975), 321                                                                                     | <i>Mineralogical Magazine</i> <b>86</b> (2022), 492                                     |
| Stillwellite-(Ce) | $\text{CeBSiO}_5$                                                                                                                                                       | Rn | 1987 s.p. | Australia                           | <i>Nature</i> <b>176</b> (1955), 509                                                                                                   | <i>Canadian Mineralogist</i> <b>31</b> (1993), 147                                      |
| Stillwellite-(La) | $\text{LaBSiO}_5$                                                                                                                                                       | A  | 2024-074  | China                               | CNMNC Newsletter 84 - <i>Mineralogical Magazine</i> <b>89</b> (2025), 298; <i>European Journal of Mineralogy</i> <b>37</b> (2025), 249 |                                                                                         |
| Stilpnomelane     | $\text{K}_4\text{Fe}^{2+}_{48}(\text{Si}_{64}\text{Al}_8)\text{O}_{164}(\text{OH})_{52} \cdot n\text{H}_2\text{O}$                                                      | Rd | 1971 s.p. | Poland / Czech Republic             | Beyträge zur Mineralogischen Kenntniss der Sudetenländer Insbesondere Schlesiens. Mar und Komp, Breslau (1827), 68                     | <i>American Mineralogist</i> <b>79</b> (1994), 438                                      |
| Stishovite        | $\text{SiO}_2$                                                                                                                                                          | A  | 1967 s.p. | USA                                 | <i>Journal of Geophysical Research</i> <b>67</b> (1962), 419                                                                           | <i>American Mineralogist</i> <b>75</b> (1990), 739                                      |
| Stistaite         | SnSb                                                                                                                                                                    | A  | 1969-039  | Uzbekistan                          | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>99</b> (1970), 68                                                        | <i>Inorganic Chemistry</i> <b>48</b> (2009), 5497                                       |
| Stöfflerite       | $\text{CaAl}_2\text{Si}_2\text{O}_8$                                                                                                                                    | A  | 2017-062  | Morocco (meteorite)                 | <i>American Mineralogist</i> <b>106</b> (2021), 650                                                                                    |                                                                                         |
| Stoiberite        | $\text{Cu}_5\text{O}_2(\text{VO}_4)_2$                                                                                                                                  | A  | 1979-016  | El Salvador                         | <i>American Mineralogist</i> <b>64</b> (1979), 941                                                                                     | <i>Acta Crystallographica</i> <b>B29</b> (1973), 1338                                   |
| Stokesite         | $\text{CaSnSi}_3\text{O}_9(\text{H}_2\text{O})_2$                                                                                                                       | G  | 1900      | United Kingdom                      | <i>Mineralogical Magazine</i> <b>12</b> (1900), 274                                                                                    | <i>Canadian Mineralogist</i> <b>55</b> (2017), 63                                       |
| Stolperite        | AlCu                                                                                                                                                                    | A  | 2016-033  | Russia (meteorite)                  | <i>American Mineralogist</i> <b>102</b> (2017), 690                                                                                    |                                                                                         |
| Stolzite          | $\text{Pb}(\text{WO}_4)$                                                                                                                                                | G  | 1845      | Czech Republic / Germany            | Handbuch der Bestimmenden Mineralogie. Braumüller and Seidel, Wien (1845), 499                                                         | <i>Mineralogical Magazine</i> <b>72</b> (2008), 987                                     |
| Stoppaniite       | $\text{Be}_3\text{Fe}^{3+}_2(\text{Si}_6\text{O}_{18})$                                                                                                                 | A  | 1996-008  | Italy                               | <i>European Journal of Mineralogy</i> <b>12</b> (2000), 121                                                                            | <i>European Journal of Mineralogy</i> <b>10</b> (1998), 491                             |
| Stottite          | $\text{Fe}^{2+}\text{Ge}(\text{OH})_6$                                                                                                                                  | G  | 1958      | Namibia                             | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1958), 85                                                                           | <i>Mineralogical Magazine</i> <b>76</b> (2012), 949                                     |
| Stracherite       | $\text{BaCa}_6(\text{SiO}_4)_2[(\text{PO}_4)(\text{CO}_3)]\text{F}$                                                                                                     | A  | 2016-098  | Israel                              | <i>American Mineralogist</i> <b>103</b> (2018), 1699                                                                                   |                                                                                         |
| Straczekite       | $(\text{Ca}, \text{K}, \text{Ba})(\text{V}^{5+}, \text{V}^{4+})_8\text{O}_{20} \cdot 3\text{H}_2\text{O}$                                                               | A  | 1983-028  | USA                                 | <i>Mineralogical Magazine</i> <b>48</b> (1984), 289                                                                                    | <i>Zeitschrift für Kristallographie</i> <b>162</b> (1983), 263                          |
| Strakhovite       | $\text{NaBa}_3(\text{Mn}^{2+}, \text{Mn}^{3+})_4[\text{Si}_4\text{O}_{10}(\text{OH})_2][\text{Si}_2\text{O}_7]\text{O}_2(\text{F}, \text{OH}) \cdot \text{H}_2\text{O}$ | A  | 1993-005  | Russia                              | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>123(4)</b> (1994), 94                                                  | <i>Kristallografiya</i> <b>37</b> (1992), 345                                           |
| Strandite         | $\text{Pb}_3\text{Mn}^{3+}_4\text{Mn}^{4+}_3\text{O}_{15}$                                                                                                              | A  | 2025-080  | Sweden                              | CNMNC Newsletter 89 - <i>Mineralogical Magazine</i> <b>90</b> (2026), 481; <i>European Journal of Mineralogy</i> <b>38</b> (2026), 117 |                                                                                         |
| Stranskiite       | $\text{CuZn}_2(\text{AsO}_4)_2$                                                                                                                                         | A  | 1962 s.p. | Namibia                             | <i>Naturwissenschaften</i> <b>47</b> (1960), 376                                                                                       | <i>Tschermaks Mineralogische und Petrographische Mitteilungen</i> <b>26</b> (1979), 167 |

|                          |                                                                                                                            |    |           |                       |                                                                                       |                                                                                                            |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------|----|-----------|-----------------------|---------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|
| Strashimirite            | $\text{Cu}_4(\text{AsO}_4)_2(\text{OH})_2 \cdot 2.5\text{H}_2\text{O}$                                                     | A  | 1967-025  | Bulgaria              | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>97</b> (1968), 470      | <i>Comptes Rendus de l'Académie Bulgare des Sciences</i> <b>54</b> (2001), 49                              |
| Strassmannite            | $\text{Al}(\text{UO}_2)(\text{SO}_4)_2\text{F}(\text{H}_2\text{O})_{10} \cdot 6\text{H}_2\text{O}$                         | A  | 2017-086  | USA                   | <i>Mineralogical Magazine</i> <b>83</b> (2019), 349                                   |                                                                                                            |
| Strätlingite             | $\text{Ca}_2\text{Al}(\text{Si},\text{Al})_2\text{O}_2(\text{OH})_{10}(\text{H}_2\text{O})_2 \cdot 0.25\text{H}_2\text{O}$ | A  | 1975-031  | Germany               | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1976), 326                         | <i>European Journal of Mineralogy</i> <b>2</b> (1990), 841                                                 |
| Strelkinite              | $\text{Na}_2(\text{UO}_2)_2(\text{VO}_4)_2 \cdot 6\text{H}_2\text{O}$                                                      | A  | 1973-063  | Kazakhstan            | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>103</b> (1974), 576     | <i>Zeitschrift für Kristallographie</i> <b>227</b> (2012), 522                                             |
| Strengite                | $\text{Fe}^{3+}(\text{PO}_4)(\text{H}_2\text{O})_2$                                                                        | G  | 1877      | Germany               | <i>Neues Jahrbuch für Mineralogie, Geologie und Paläontologie</i> (1877), 8           | <i>Crystal Research and Technology</i> <b>39</b> (2004), 1080                                              |
| Stringhamite             | $\text{CaCu}(\text{SiO}_4)(\text{H}_2\text{O})$                                                                            | A  | 1974-007  | USA                   | <i>American Mineralogist</i> <b>61</b> (1976), 189                                    | <i>Tschermaks Mineralogische und Petrographische Mitteilungen</i> <b>34</b> (1985), 15                     |
| Stromeyerite             | $\text{CuAgS}$                                                                                                             | G  | 1832      | Czech Republic        | <i>Traité Élémentaire de Minéralogie</i> , 2nd ed. Verdière, Paris (1832), 410        | <i>Acta Crystallographica</i> <b>B47</b> (1991), 891                                                       |
| Stronadelphite           | $\text{Sr}_5(\text{PO}_4)_3\text{F}$                                                                                       | A  | 2008-009  | Russia                | <i>European Journal of Mineralogy</i> <b>22</b> (2010), 869                           |                                                                                                            |
| Stronalsite              | $\text{Na}_2\text{Sr}(\text{Al}_4\text{Si}_4\text{O}_{16})$                                                                | A  | 1983-016  | Japan                 | <i>Mineralogical Journal</i> <b>13</b> (1987), 368                                    | <i>Mineralogical Magazine</i> <b>89</b> (2025), 357                                                        |
| Strontianite             | $\text{Sr}(\text{CO}_3)$                                                                                                   | G  | 1791      | United Kingdom        | <i>Bergmannisches Journal</i> <b>1</b> (1791), 433                                    | <i>European Journal of Mineralogy</i> <b>32</b> (2020), 575                                                |
| Strontioborite           | $\text{Sr}[\text{B}_8\text{O}_{11}(\text{OH})_4]$                                                                          | A  | 2020-017  | Kazakhstan            | <i>Mineralogical Magazine</i> <b>88</b> (2024), 585                                   |                                                                                                            |
| Strontiochevkinite       | $(\text{Sr},\text{Ce},\text{La})_4\text{Fe}^{2+}(\text{Ti},\text{Zr})_4(\text{Si}_2\text{O}_7)_2\text{O}_8$                | A  | 1983-009  | Paraguay              | <i>Contributions to Mineralogy and Petrology</i> <b>84</b> (1983), 365                |                                                                                                            |
| Strontiodresserite       | $\text{SrAl}_2(\text{CO}_3)_2(\text{OH})_4 \cdot \text{H}_2\text{O}$                                                       | A  | 1977-005  | Canada                | <i>Canadian Mineralogist</i> <b>15</b> (1977), 405                                    | <i>Powder Diffraction</i> <b>25</b> (2010), 322                                                            |
| Strontiofluorite         | $\text{SrF}_2$                                                                                                             | A  | 2009-014  | Russia                | <i>Canadian Mineralogist</i> <b>48</b> (2010), 1487                                   |                                                                                                            |
| Strontioginorite         | $\text{CaSrB}_{14}\text{O}_{20}(\text{OH})_6(\text{H}_2\text{O})_3 \cdot 2\text{H}_2\text{O}$                              | G  | 1959      | Germany               | <i>Beiträge zur Mineralogie und Petrographie</i> <b>6</b> (1959), 366                 | <i>Canadian Mineralogist</i> <b>43</b> (2005), 1019                                                        |
| Strontiohurlbutite       | $\text{SrBe}_2(\text{PO}_4)_2$                                                                                             | A  | 2012-032  | China                 | <i>American Mineralogist</i> <b>99</b> (2014), 494                                    | <i>Canadian Mineralogist</i> <b>52</b> (2014), 337                                                         |
| Strontiojoaquinite       | $(\text{Na},\text{Fe})_2\text{Ba}_2\text{Sr}_2\text{Ti}_2(\text{SiO}_3)_8(\text{O},\text{OH})_2(\text{H}_2\text{O})$       | Rd | 1979-080  | USA                   | <i>American Mineralogist</i> <b>67</b> (1982), 809                                    |                                                                                                            |
| Strontiomelane           | $\text{Sr}(\text{Mn}^{4+}_6\text{Mn}^{3+}_2)\text{O}_{16}$                                                                 | A  | 1995-005  | Italy                 | <i>Canadian Mineralogist</i> <b>37</b> (1999), 673                                    |                                                                                                            |
| Strontio-orthojoaquinite | $\text{NaSr}_4\text{Fe}^{3+}\text{Ti}_2\text{Si}_8\text{O}_{24}(\text{OH})_4$                                              | Rd | 1979-081a | Japan                 | <i>Mineralogical Journal</i> <b>7</b> (1974), 395                                     | <i>Journal of the Faculty of Liberal Arts, Yamaguchi University (Natural Science)</i> <b>24</b> (1990), 23 |
| Strontioferroite         | $\text{SrMn}^{2+}_2\text{Fe}^{3+}_2(\text{PO}_4)_3(\text{OH})_3$                                                           | A  | 2015-023  | Australia             | <i>European Journal of Mineralogy</i> <b>31</b> (2019), 549                           |                                                                                                            |
| Strontioferrosiderite    | $\text{Sr}_{0.5}\text{Fe}^{3+}_4[(\text{AsO}_4)_3(\text{OH})_4] \cdot 4\text{H}_2\text{O}$                                 | A  | 2013-101  | Switzerland           | CNMNC Newsletter 19 - <i>Mineralogical Magazine</i> <b>78</b> (2014), 165             |                                                                                                            |
| Strontioruizite          | $\text{Sr}_2\text{Mn}^{3+}_2\text{Si}_4\text{O}_{11}(\text{OH})_4(\text{H}_2\text{O})_2$                                   | A  | 2017-045  | South Africa          | <i>Canadian Mineralogist</i> <b>59</b> (2021), 431                                    |                                                                                                            |
| Strontio whitlockite     | $\text{Sr}_9\text{Mg}(\text{PO}_3\text{OH})(\text{PO}_4)_6$                                                                | A  | 1989-040  | Russia                | <i>Canadian Mineralogist</i> <b>29</b> (1991), 87                                     |                                                                                                            |
| Strunzite                | $\text{Mn}^{2+}\text{Fe}^{3+}_2(\text{PO}_4)_2(\text{OH})_2(\text{H}_2\text{O})_6$                                         | G  | 1958      | Germany               | <i>Naturwissenschaften</i> <b>45</b> (1958), 37                                       | <i>Mineralogical Magazine</i> <b>82</b> (2018), 291                                                        |
| Struvite                 | $(\text{NH}_4)\text{Mg}(\text{PO}_4)(\text{H}_2\text{O})_6$                                                                | G  | 1846      | Germany               | <i>Översigt af Kongliga Vetenskaps-Akademiens Förhandlingar</i> (1847), 32            | <i>Canadian Mineralogist</i> <b>55</b> (2017), 89                                                          |
| Struvite-(K)             | $\text{KMg}(\text{PO}_4)(\text{H}_2\text{O})_6$                                                                            | A  | 2003-048  | Switzerland / Austria | <i>European Journal of Mineralogy</i> <b>20</b> (2008), 629                           |                                                                                                            |
| Studenitsite             | $\text{NaCa}_2\text{B}_9\text{O}_{14}(\text{OH})_4(\text{H}_2\text{O})_2$                                                  | A  | 1994-026  | Serbia                | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>124(3)</b> (1995), 57 | <i>Crystallography Reports</i> <b>38</b> (1993), 749                                                       |

|                    |                                                                                                                  |    |           |                                  |                                                                                                                                        |                                                                                             |
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| Studtite           | $(\text{UO}_2)(\text{O}_2)(\text{H}_2\text{O})_2 \cdot 2\text{H}_2\text{O}$                                      | G  | 1947      | Democratic Republic of the Congo | <i>Bulletin de la Société Belge de Géologie</i> <b>70</b> (1947), B212                                                                 | <i>Journal of Physical Chemistry C</i> <b>124</b> (2020), 26699                             |
| Stumpflite         | PtSb                                                                                                             | A  | 1972-013  | South Africa                     | <i>Bulletin de la Société Française de Minéralogie et de Cristallographie</i> <b>95</b> (1972), 610                                    | <i>Zeitschrift für Physikalische Chemie, Abteilung B</i> <b>4</b> (1929), 277               |
| Stunorthropite     | $(\text{NH}_4)_4[\text{Mo}_2\text{O}_6(\text{MoO}_4)_2]$                                                         | A  | 2024-064  | USA                              | CNMNC Newsletter 83 - <i>Mineralogical Magazine</i> <b>89</b> (2025), 185; <i>European Journal of Mineralogy</i> <b>37</b> (2025), 75  |                                                                                             |
| Sturmanite         | $\text{Ca}_6\text{Fe}^{3+}_2(\text{SO}_4)_{2.5}[\text{B}(\text{OH})_4](\text{OH})_{12}(\text{H}_2\text{O})_{25}$ | A  | 1981-011  | South Africa                     | <i>Canadian Mineralogist</i> <b>21</b> (1983), 705                                                                                     | <i>Canadian Mineralogist</i> <b>42</b> (2004), 723                                          |
| Stützite           | $\text{Ag}_{5-x}\text{Te}_3$ ( $x = 0.24\text{--}0.36$ )                                                         | Rd | 1964 s.p. | Romania                          | <i>American Mineralogist</i> <b>36</b> (1951), 458                                                                                     | <i>Zeitschrift für Kristallographie</i> <b>233</b> (2018), 247                              |
| Suanite            | $\text{Mg}_2\text{B}_2\text{O}_5$                                                                                | A  | 1967 s.p. | North Korea                      | <i>Mineralogical Journal</i> <b>1</b> (1953), 54                                                                                       | <i>Acta Crystallographica</i> <b>C51</b> (1995), 2469                                       |
| Sudburyite         | PdSb                                                                                                             | A  | 1973-048  | Canada                           | <i>Canadian Mineralogist</i> <b>12</b> (1974), 275                                                                                     | <i>Ti Ch'iu Hua Hseuh</i> (1979), 72                                                        |
| Sudoite            | $\text{Mg}_2\text{Al}_3(\text{Si}_3\text{Al})\text{O}_{10}(\text{OH})_8$                                         | Rd | 1966-027  | Germany                          | <i>Naturwissenschaften</i> <b>49</b> (1962), 205                                                                                       | <i>American Mineralogist</i> <b>92</b> (2007), 1586                                         |
| Sudovikovite       | PtSe <sub>2</sub>                                                                                                | A  | 1995-009  | Russia                           | <i>Doklady Akademii Nauk</i> <b>354</b> (1997), 486                                                                                    |                                                                                             |
| Suenoite           | $\square\text{Mn}_2\text{Mg}_5\text{Si}_8\text{O}_{22}(\text{OH})_2$                                             | A  | 2019-075  | Italy                            | <i>European Journal of Mineralogy</i> <b>37</b> (2025), 761                                                                            |                                                                                             |
| Suessite           | Fe <sub>3</sub> Si                                                                                               | A  | 1979-056  | Australia (meteorite)            | <i>Meteoritics</i> <b>15</b> (1980), 312                                                                                               | <i>American Mineralogist</i> <b>67</b> (1982), 126                                          |
| Sugakiite          | $\text{Cu}(\text{Fe},\text{Ni})_8\text{S}_8$                                                                     | A  | 2005-033  | Japan                            | <i>Canadian Mineralogist</i> <b>46</b> (2008), 263                                                                                     |                                                                                             |
| Sugarwhiteite      | Pb <sub>2</sub> Te <sub>5</sub> O <sub>12</sub>                                                                  | A  | 2024-079  | Mexico                           | CNMNC Newsletter 84 - <i>Mineralogical Magazine</i> <b>89</b> (2025), 298; <i>European Journal of Mineralogy</i> <b>37</b> (2025), 249 |                                                                                             |
| Sugilite           | $\text{KNa}_2\text{Fe}^{3+}_2(\text{Li}_3\text{Si}_{12})\text{O}_{30}$                                           | A  | 1974-060  | Japan                            | <i>Mineralogical Journal</i> <b>8</b> (1976), 110                                                                                      | <i>Minerals</i> <b>13</b> (2023), 620                                                       |
| Suhailite          | $(\text{NH}_4)\text{Fe}^{2+}_3(\text{Si}_3\text{Al})\text{O}_{10}(\text{OH})_2$                                  | A  | 2007-040  | Spain                            | <i>American Mineralogist</i> <b>94</b> (2009), 210                                                                                     |                                                                                             |
| Sulfatoredmondite  | $[\text{Pb}_8\text{O}_2\text{Zn}(\text{OH})_6](\text{SO}_4)_4(\text{H}_2\text{O})_6$                             | A  | 2021-089  | USA                              | <i>Canadian Journal of Mineralogy and Petrology</i> <b>61</b> (2023), 189                                                              |                                                                                             |
| Sulfhydrylbystrite | $\text{Na}_5\text{K}_2\text{Ca}[\text{Al}_6\text{Si}_6\text{O}_{24}](\text{S}_5)^{2-}(\text{SH})^-$              | A  | 2015-010  | Russia                           | <i>Mineralogical Magazine</i> <b>81</b> (2017), 383                                                                                    |                                                                                             |
| Sulfoborite        | $\text{Mg}_3[\text{B}(\text{OH})_4]_2(\text{SO}_4)(\text{OH},\text{F})_2$                                        | G  | 1893      | Germany                          | <i>Sitzungsberichte der Akademie der Wissenschaften</i> (1893), 967                                                                    | <i>American Mineralogist</i> <b>68</b> (1983), 255                                          |
| Sulfopadmaite      | PdBiS                                                                                                            | A  | 2025-046  | Russia                           | CNMNC Newsletter 88 - <i>Mineralogical Magazine</i> <b>90</b> (2026), 192; <i>European Journal of Mineralogy</i> <b>37</b> (2025), 921 | <a href="https://doi.org/10.1180/mgm.2026.10226">https://doi.org/10.1180/mgm.2026.10226</a> |
| Sulphohalite       | $\text{Na}_6(\text{SO}_4)_2\text{ClF}$                                                                           | G  | 1888      | USA                              | <i>American Journal of Science</i> <b>136</b> (1888), 463                                                                              | <i>Journal of Science of the Hiroshima University, Series A-II</i> <b>32</b> (1968), 101    |
| Sulphotsumoite     | Bi <sub>3</sub> Te <sub>2</sub> S                                                                                | A  | 1980-084  | Russia                           | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>111</b> (1982), 316                                                      |                                                                                             |
| Sulphur            | S                                                                                                                | G  | ?         | unknown                          | original paper?                                                                                                                        | <i>Zeitschrift für Naturforschung</i> <b>74b</b> (2019), 5                                  |
| Sulvanite          | Cu <sub>3</sub> VS <sub>4</sub>                                                                                  | G  | 1900      | Australia                        | <i>Journal of the Chemical Society, Transactions</i> <b>77</b> (1900), 1094                                                            | <i>Zeitschrift für Kristallographie - New Crystal Structures</i> <b>213</b> (1998), 12      |
| Sundiusite         | Pb <sub>10</sub> (SO <sub>4</sub> ) <sub>8</sub> Cl <sub>2</sub>                                                 | A  | 1979-044  | Sweden                           | <i>American Mineralogist</i> <b>65</b> (1980), 506                                                                                     |                                                                                             |
| Sunshuite          | FeBi <sub>2</sub> S <sub>4</sub>                                                                                 | A  | 2025-013  | China                            | CNMNC Newsletter 86 - <i>Mineralogical Magazine</i> <b>89</b> (2025), 544; <i>European Journal of Mineralogy</i> <b>37</b> (2025), 549 | <a href="https://doi.org/10.2138/am-2025-10093">https://doi.org/10.2138/am-2025-10093</a>   |

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|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----------|----------------------------------|--------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| Suolunite                      | $\text{Ca}_2\text{Si}_2\text{O}_5(\text{OH})_2(\text{H}_2\text{O})$                                                                                                                | A  | 1968 s.p. | China                            | <i>Geological Review</i> <b>23</b> (1965), 7                                               | <i>Kexue Tongbao</i> <b>44</b> (1999), 2125                                                 |
| Suredateite                    | $\text{PbSnS}_3$                                                                                                                                                                   | A  | 1997-043  | Argentina                        | <i>American Mineralogist</i> <b>85</b> (2000), 1066                                        |                                                                                             |
| Surinamite                     | $\text{Mg}_3\text{Al}_3\text{O}(\text{Si}_3\text{BeAlO}_{15})$                                                                                                                     | A  | 1974-053  | Suriname                         | <i>American Mineralogist</i> <b>61</b> (1976), 193                                         | <i>American Mineralogist</i> <b>87</b> (2002), 501                                          |
| Surite                         | $(\text{Pb}, \text{Ca})_3\text{Al}_2(\text{Si}, \text{Al})_4\text{O}_{10}(\text{CO}_3)_2(\text{OH})_3 \cdot 0.3\text{H}_2\text{O}$                                                 | A  | 1977-037  | Argentina                        | <i>American Mineralogist</i> <b>63</b> (1978), 1175                                        | <i>American Mineralogist</i> <b>82</b> (1997), 416                                          |
| Sursassite                     | $\text{Mn}^{2+}_2\text{Al}_3(\text{SiO}_4)(\text{Si}_2\text{O}_7)(\text{OH})_3$                                                                                                    | G  | 1926      | Switzerland                      | <i>Schweizerische Mineralogische und Petrographische Mitteilungen</i> <b>6</b> (1926), 376 | <i>American Mineralogist</i> <b>94</b> (2009), 1440                                         |
| Susannite                      | $\text{Pb}_4(\text{SO}_4)(\text{CO}_3)_2(\text{OH})_2$                                                                                                                             | G  | 1845      | United Kingdom                   | Handbuch der Bestimmenden Mineralogie. Braumüller and Seidel, Wien (1845), 499             | <i>European Journal of Mineralogy</i> <b>11</b> (1999), 493                                 |
| Suseinargiuite                 | $(\text{Na}_{0.5}\text{Bi}_{0.5})(\text{MoO}_4)$                                                                                                                                   | A  | 2014-089  | Italy                            | <i>European Journal of Mineralogy</i> <b>27</b> (2015), 695                                |                                                                                             |
| Sussexite                      | $\text{Mn}^{2+}\text{BO}_2(\text{OH})$                                                                                                                                             | G  | 1868      | USA                              | <i>American Journal of Science</i> <b>46</b> (1868), 140                                   | <i>Schweizerische Mineralogische und Petrographische Mitteilungen</i> <b>75</b> (1995), 123 |
| Suzukiite                      | $\text{BaV}^{4+}\text{Si}_2\text{O}_7$                                                                                                                                             | A  | 1978-005  | Japan                            | <i>Mineralogical Journal</i> <b>11</b> (1982), 15                                          |                                                                                             |
| Svabite                        | $\text{Ca}_5(\text{AsO}_4)_3\text{F}$                                                                                                                                              | G  | 1891      | Sweden                           | <i>Geologiska Föreningens i Stockholm Förhandlingar</i> <b>13</b> (1891), 789              | <i>American Mineralogist</i> <b>101</b> (2016), 1750                                        |
| Svanbergite                    | $\text{SrAl}_3(\text{SO}_4)(\text{PO}_4)(\text{OH})_6$                                                                                                                             | Rd | 1987 s.p. | Sweden                           | <i>Öfversigt af Kongliga Vetenskaps-Akademiens Förhandlingar</i> <b>11</b> (1854), 156     | <i>Neues Jahrbuch für Mineralogie Abhandlungen</i> <b>185</b> (2009), 313                   |
| Sveinbergeite                  | $(\text{H}_2\text{O})_2[\text{Ca}(\text{H}_2\text{O})](\text{Fe}^{2+}_6\text{Fe}^{3+})\text{Ti}_2(\text{Si}_4\text{O}_{12})_2\text{O}_2(\text{OH})_4$<br>[[OH](H <sub>2</sub> O)]] | A  | 2010-027  | Norway                           | <i>Mineralogical Magazine</i> <b>75</b> (2011), 2687                                       |                                                                                             |
| Sveite                         | $\text{KAl}_7(\text{NO}_3)_4(\text{OH})_{16}\text{Cl}_2 \cdot 8\text{H}_2\text{O}$                                                                                                 | A  | 1980-005  | Venezuela                        | <i>Transactions of the Geological Society of South Africa</i> <b>83</b> (1982), 239        | <i>Canadian Journal of Mineralogy and Petrology</i> <b>61</b> (2023), 861                   |
| Švenekite                      | $\text{Ca}[\text{AsO}_2(\text{OH})_2]_2$                                                                                                                                           | A  | 1999-007  | Czech Republic                   | <i>Mineralogical Magazine</i> <b>77</b> (2013), 2711                                       |                                                                                             |
| Sverigeite                     | $\text{NaBe}_2\text{Mn}^{2+}_2\text{SnSi}_3\text{O}_{12}(\text{OH})$                                                                                                               | A  | 1983-066  | Sweden                           | <i>Geologiska Föreningens i Stockholm Förhandlingar</i> <b>106</b> (1984), 175             | <i>American Mineralogist</i> <b>74</b> (1989), 1343                                         |
| Svetlanaite                    | $\text{SnSe}$                                                                                                                                                                      | A  | 2020-013  | Russia                           | <i>Mineralogical Magazine</i> <b>86</b> (2022), 234                                        |                                                                                             |
| Svornostite-(K)                | $\text{K}_2\text{Mg}(\text{UO}_2)_2(\text{SO}_4)_4(\text{H}_2\text{O})_8$                                                                                                          | Rn | 2025 s.p. | Czech Republic                   | <i>Journal of Geosciences</i> <b>60</b> (2015), 113                                        |                                                                                             |
| Svornostite-(NH <sub>4</sub> ) | $(\text{NH}_4)_2\text{Mg}(\text{UO}_2)_2(\text{SO}_4)_4(\text{H}_2\text{O})_8$                                                                                                     | A  | 2024-068  | USA                              | <i>Mineralogical Magazine</i> <b>89</b> (2025), 609                                        |                                                                                             |
| Svyatoslavite                  | $\text{Ca}(\text{Al}_2\text{Si}_2\text{O}_8)$                                                                                                                                      | A  | 1988-012  | Russia                           | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>118(2)</b> (1989), 111     | <i>Canadian Mineralogist</i> <b>50</b> (2012), 585                                          |
| Svyazhinite                    | $\text{MgAl}(\text{SO}_4)_2\text{F} \cdot 14\text{H}_2\text{O}$                                                                                                                    | A  | 1983-045  | Russia                           | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>113</b> (1984), 347          |                                                                                             |
| Swaknoite                      | $(\text{NH}_4)_2\text{Ca}(\text{PO}_3\text{OH})_2 \cdot \text{H}_2\text{O}$                                                                                                        | A  | 1991-021  | Namibia                          | <i>Bulletin of the South African Speleological Association</i> <b>32</b> (1991), 72        |                                                                                             |
| Swamboite-(Nd)                 | $\text{Nd}_{0.333}[(\text{UO}_2)(\text{SiO}_3\text{OH})](\text{H}_2\text{O})_{-2.5}$                                                                                               | Rd | 2017 s.p. | Democratic Republic of the Congo | <i>Canadian Mineralogist</i> <b>19</b> (1981), 553                                         | <i>Zeitschrift für Kristallographie</i> <b>233</b> (2018), 223                              |
| Swartzite                      | $\text{CaMg}(\text{UO}_2)(\text{CO}_3)_3(\text{H}_2\text{O})_{12}$                                                                                                                 | G  | 1951      | USA                              | <i>American Mineralogist</i> <b>36</b> (1951), 1                                           | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1986), 481                               |
| Swedenborgite                  | $\text{NaBe}_4\text{Sb}^{5+}\text{O}_7$                                                                                                                                            | G  | 1924      | Sweden                           | <i>Zeitschrift für Kristallographie</i> <b>60</b> (1924), 262                              | <i>Journal of Mineralogical and Petrological Sciences</i> <b>119</b> (2024), 240209         |
| Sweetite                       | $\text{Zn}(\text{OH})_2$                                                                                                                                                           | A  | 1983-011  | United Kingdom                   | <i>Mineralogical Magazine</i> <b>48</b> (1984), 267                                        |                                                                                             |

|                 |                                                                                                               |    |           |                     |                                                                                                                                              |                                                                                   |
|-----------------|---------------------------------------------------------------------------------------------------------------|----|-----------|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| Swinefordite    | $\text{Ca}_{0.2}(\text{Li,Al,Mg,Fe})_3(\text{Si,Al})_4\text{O}_{10}(\text{OH,F})_2 \cdot n\text{H}_2\text{O}$ | A  | 1973-054  | USA                 | <i>American Mineralogist</i> <b>60</b> (1975), 540                                                                                           |                                                                                   |
| Switzerite      | $\text{Mn}^{2+}_3(\text{PO}_4)_2(\text{H}_2\text{O})_5 \cdot 2\text{H}_2\text{O}$                             | Rd | 1966-042  | USA                 | <i>American Mineralogist</i> <b>52</b> (1967), 1595                                                                                          | <i>Doklady Chemistry</i> <b>393</b> (2003), 262                                   |
| Sylvanite       | $\text{AgAuTe}_4$                                                                                             | G  | 1835      | Romania             | Régne Minérale. Levraut, Paris (1835), 38                                                                                                    | <i>Acta Crystallographica</i> <b>B78</b> (2022), 117                              |
| Sylvite         | KCl                                                                                                           | G  | 1832      | Italy               | Traité Élémentaire de Minéralogie, 2nd ed. Verdière, Paris (1832), 511                                                                       | <i>Acta Crystallographica</i> <b>A29</b> (1973), 514                              |
| Symesite        | $\text{Pb}_{10}(\text{SO}_4)_7\text{Cl}_4(\text{H}_2\text{O})$                                                | A  | 1998-035  | United Kingdom      | <i>American Mineralogist</i> <b>85</b> (2000), 1526                                                                                          |                                                                                   |
| Symplectite     | $\text{Fe}^{2+}_3(\text{AsO}_4)_2(\text{H}_2\text{O})_8$                                                      | G  | 1837      | Germany             | <i>Journal für Praktische Chemie</i> <b>10</b> (1837), 501                                                                                   | <i>Zeitschrift für Anorganische und Allgemeine Chemie</i> <b>641</b> (2015), 1207 |
| Synadelphite    | $\text{Mn}^{2+}_9(\text{AsO}_4)_2(\text{AsO}_3)(\text{OH})_9(\text{H}_2\text{O})_2$                           | G  | 1884      | Sweden              | <i>Geologiska Föreningens i Stockholm Förhandlingar</i> <b>7</b> (1884), 220                                                                 | <i>American Mineralogist</i> <b>55</b> (1970), 2023                               |
| Synchysite-(Ce) | $\text{CaCe}(\text{CO}_3)_2\text{F}$                                                                          | Rn | 1982-030  | Denmark (Greenland) | <i>Bulletin of the Geological Institution of the University of Upsala</i> <b>5</b> (1901), 81                                                | <i>European Journal of Mineralogy</i> <b>37</b> (2025), 233                       |
| Synchysite-(Nd) | $\text{CaNd}(\text{CO}_3)_2\text{F}$                                                                          | Rn | 1982-030a | Serbia              | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1983), 201                                                                                |                                                                                   |
| Synchysite-(Y)  | $\text{CaY}(\text{CO}_3)_2\text{F}$                                                                           | Rn | 1982-030b | USA                 | <i>American Mineralogist</i> <b>45</b> (1960), 92                                                                                            | <i>Acta Petrologica et Mineralogica</i> <b>14</b> (1995), 336                     |
| Syngenite       | $\text{K}_2\text{Ca}(\text{SO}_4)_2(\text{H}_2\text{O})$                                                      | G  | 1872      | Ukraine             | <i>Lotos - Zeitschrift für Naturwissenschaften</i> <b>22</b> (1872), 137                                                                     | <i>Neues Jahrbuch für Mineralogie Abhandlungen</i> <b>182</b> (2005), 15          |
| Szaibélyite     | $\text{MgBO}_2(\text{OH})$                                                                                    | G  | 1862      | Romania             | <i>Sitzungsberichte der Mathematisch-Naturwissenschaftlichen Classe der Kaiserlichen Akademie der Wissenschaften</i> <b>44</b> (1862), 143   | <i>Canadian Mineralogist</i> <b>46</b> (2008), 671                                |
| Szenicsite      | $\text{Cu}_3(\text{MoO}_4)(\text{OH})_4$                                                                      | A  | 1993-011  | Chile               | <i>Mineralogical Record</i> <b>28</b> (1997), 387                                                                                            | <i>Physics and Chemistry of Minerals</i> <b>46</b> (2019), 437                    |
| Szilagiite      | $\text{NaCa}_3(\text{UO}_2)(\text{CO}_3)_3(\text{SeO}_3)\text{F}(\text{H}_2\text{O})_6$                       | A  | 2024-063  | USA                 | <i>Journal of Geosciences</i> <b>70</b> (2025), 177                                                                                          |                                                                                   |
| Szklaryite      | $\square\text{Al}_6\text{BaS}^{3+}_3\text{O}_{15}$                                                            | A  | 2012-070  | Poland              | <i>Mineralogical Magazine</i> <b>77</b> (2013), 2841                                                                                         |                                                                                   |
| Szmikite        | $\text{Mn}(\text{SO}_4)(\text{H}_2\text{O})$                                                                  | G  | 1877      | Romania             | <i>Verhandlungen der Kaiserlich-Königlichen Geologischen Reichsanstalt</i> (1877), 115                                                       | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1991), 296                     |
| Szomolnokite    | $\text{Fe}(\text{SO}_4)(\text{H}_2\text{O})$                                                                  | G  | 1891      | Slovakia            | <i>Magyar Tudományos Akadémia Értesítője</i> <b>2</b> (1891), 96                                                                             | <i>American Mineralogist</i> <b>108</b> (2023), 476                               |
| Szymańskiite    | $\text{Hg}_{16}\text{Ni}_6(\text{CO}_3)_{12}(\text{OH})_{12}(\text{H}_3\text{O})_8 \cdot 3\text{H}_2\text{O}$ | A  | 1989-045  | USA                 | <i>Canadian Mineralogist</i> <b>28</b> (1990), 703                                                                                           | <i>Canadian Mineralogist</i> <b>28</b> (1990), 709                                |
| Tacharanite     | $\text{Ca}_{12}\text{Al}_2\text{Si}_{18}\text{O}_{33}(\text{OH})_{36}$                                        | G  | 1961      | United Kingdom      | <i>Mineralogical Magazine</i> <b>32</b> (1961), 745                                                                                          | <i>Mineralogical Magazine</i> <b>40</b> (1975), 113                               |
| Tachyhydrite    | $[\text{Mg}(\text{H}_2\text{O})_6]_2\text{CaCl}_6$                                                            | G  | 1856      | Germany             | <i>Annalen der Physik</i> <b>98</b> (1856), 261                                                                                              | <i>Acta Crystallographica</i> <b>B36</b> (1980), 2734                             |
| Tadzhikite-(Ce) | $\text{Ca}_4\text{Ce}_2\text{Ti}\square(\text{B}_4\text{Si}_4\text{O}_{22})(\text{OH})_2$                     | Rn | 1987 s.p. | Tajikistan          | <i>Doklady Akademii Nauk SSSR</i> <b>195</b> (1970), 1190                                                                                    | <i>American Mineralogist</i> <b>87</b> (2002), 745                                |
| Taenite         | (Ni,Fe)                                                                                                       | G  | 1861      | New Zealand ?       | <i>Annalen der Physik und Chemie</i> <b>114</b> (1861), 250                                                                                  | <i>Nature</i> <b>273</b> (1978), 453                                              |
| Taikanite       | $\text{BaSr}_2\text{Mn}^{3+}_2\text{O}_2(\text{Si}_4\text{O}_{12})$                                           | A  | 1984-051  | Russia              | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>114</b> (1985), 635                                                            | <i>American Mineralogist</i> <b>78</b> (1993), 1088                               |
| Taimyrite       | $(\text{Pd,Pt})_9\text{Cu}_3\text{Sn}_4$                                                                      | Rn | 1973-065  | Russia              | <i>Proceedings of the Central Research Institute of Geological Prospecting for Base and Precious Metals (TsNIGRI)</i> <b>122</b> (1976), 107 | <i>Canadian Mineralogist</i> <b>38</b> (2000), 599                                |
| Tainiolite      | $\text{KLiMg}_2\text{Si}_4\text{O}_{10}\text{F}_2$                                                            | G  | 1901      | Denmark (Greenland) | <i>Meddelelser om Grønland</i> <b>24</b> (1901), 115                                                                                         | <i>Canadian Mineralogist</i> <b>45</b> (2007), 541                                |

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|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----------|--------------|----------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| Taipingite-(CeCa)     | (Ce <sub>7</sub> Ca <sub>2</sub> )□Mg(SiO <sub>4</sub> ) <sub>3</sub> [SiO <sub>3</sub> (OH)] <sub>4</sub> F <sub>3</sub>                                                                                 | Rn | 2023 s.p. | China        | <i>Geoscience Frontiers</i> <b>11</b> (2020), 2339                                                                                     |                                                                                         |
| Takanawaite-(Y)       | YTaO <sub>4</sub>                                                                                                                                                                                         | A  | 2011-099  | Japan        | <i>Journal of Mineralogical and Petrological Sciences</i> <b>108</b> (2013), 335                                                       |                                                                                         |
| Takanelite            | (Mn <sup>2+</sup> ,Ca) <sub>2x</sub> (Mn <sup>4+</sup> ) <sub>1-x</sub> O <sub>2</sub> ·0.7H <sub>2</sub> O                                                                                               | A  | 1970-034  | Japan        | <i>Journal of the Japanese Association of Mineralogists, Petrologists and Economic Geologists</i> <b>65</b> (1971), 1                  | <i>American Mineralogist</i> <b>76</b> (1991), 1426                                     |
| Takedaite             | Ca <sub>3</sub> B <sub>2</sub> O <sub>6</sub>                                                                                                                                                             | A  | 1993-049  | Japan        | <i>Mineralogical Magazine</i> <b>59</b> (1995), 549                                                                                    | <i>Acta Crystallographica</i> <b>B31</b> (1975), 1416                                   |
| Takéuchiite           | Mg <sub>2</sub> Mn <sup>3+</sup> O <sub>2</sub> (BO <sub>3</sub> )                                                                                                                                        | A  | 1980-018  | Sweden       | <i>American Mineralogist</i> <b>65</b> (1980), 1130                                                                                    | <i>Zeitschrift für Kristallographie</i> <b>181</b> (1987), 135                          |
| Takovite              | Ni <sub>6</sub> Al <sub>2</sub> (OH) <sub>16</sub> (CO <sub>3</sub> )·4H <sub>2</sub> O                                                                                                                   | A  | 1977 s.p. | Serbia       | <i>Comptes Rendus des Séances de la Société Serbe de Géologie pour l'année 1955</i> (1957), 219                                        | <i>Journal of Geosciences</i> <b>58</b> (2012), 273                                     |
| Talc                  | Mg <sub>3</sub> Si <sub>4</sub> O <sub>10</sub> (OH) <sub>2</sub>                                                                                                                                         | G  | ?         | unknown      | De natura eorum quae effluunt ex terra. Nachdruck der Ausgabe, Basel (1546), 480                                                       | <i>Physics and Chemistry of Minerals</i> <b>40</b> (2013), 145                          |
| Talmessite            | Ca <sub>2</sub> Mg(AsO <sub>4</sub> ) <sub>2</sub> (H <sub>2</sub> O) <sub>2</sub>                                                                                                                        | A  | 1985 s.p. | Iran         | <i>Bulletin de la Société Française de Minéralogie et de Cristallographie</i> <b>83</b> (1960), 118                                    | <i>Bulletin de Minéralogie</i> <b>100</b> (1977), 230                                   |
| Talnakhite            | Cu <sub>9</sub> Fe <sub>8</sub> S <sub>16</sub>                                                                                                                                                           | A  | 1967-014  | Russia       | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>97</b> (1968), 63                                                        | <i>American Mineralogist</i> <b>57</b> (1972), 368                                      |
| Tamaite               | Ca <sub>x</sub> Mn <sup>2+</sup> <sub>6</sub> (Si,Al) <sub>10</sub> O <sub>24</sub> (OH) <sub>4</sub> (H <sub>2</sub> O) <sub>n</sub><br>( <i>x</i> = 1-2; <i>n</i> = 7-11)                               | A  | 1999-011  | Japan        | <i>Journal of Mineralogical and Petrological Sciences</i> <b>95</b> (2000), 79                                                         | <i>American Mineralogist</i> <b>88</b> (2003), 1324                                     |
| Tamarugite            | [Al(H <sub>2</sub> O) <sub>6</sub> ]Na(SO <sub>4</sub> ) <sub>2</sub>                                                                                                                                     | G  | 1889      | Chile        | <i>Verhandlungen des Deutschen Wissenschaftlichen Vereines zu Santiago</i> <b>2</b> (1889), 49                                         | <i>Acta Crystallographica</i> <b>E69</b> (2013), i63                                    |
| Tamboite              | Fe <sup>3+</sup> <sub>3</sub> (OH)(H <sub>2</sub> O) <sub>2</sub> (SO <sub>4</sub> )(Te <sup>4+</sup> O <sub>3</sub> ) <sub>3</sub> [Te <sup>4+</sup> O(OH) <sub>2</sub> ](H <sub>2</sub> O) <sub>3</sub> | A  | 2016-059  | Chile        | <i>Canadian Mineralogist</i> <b>57</b> (2019), 605                                                                                     |                                                                                         |
| Tamuraite             | Ir <sub>5</sub> Fe <sub>10</sub> S <sub>16</sub>                                                                                                                                                          | A  | 2020-098  | Russia       | <i>Minerals</i> <b>11</b> (2021), 545                                                                                                  |                                                                                         |
| Tancaite-(Ce)         | FeCe(MoO <sub>4</sub> ) <sub>3</sub> (H <sub>2</sub> O) <sub>3</sub>                                                                                                                                      | A  | 2009-097  | Italy        | <i>European Journal of Mineralogy</i> <b>32</b> (2020), 347                                                                            |                                                                                         |
| Tancoite              | LiNa <sub>2</sub> Al(PO <sub>4</sub> )(PO <sub>3</sub> OH)(OH)                                                                                                                                            | A  | 1979-045  | Canada       | <i>Canadian Mineralogist</i> <b>18</b> (1980), 185                                                                                     | <i>Tschermaks Mineralogische und Petrographische Mitteilungen</i> <b>31</b> (1983), 121 |
| Taneyamalite          | (Na,Ca)Mn <sup>2+</sup> <sub>12</sub> (Si,Al) <sub>12</sub> (O,OH) <sub>44</sub>                                                                                                                          | A  | 1977-042  | Japan        | <i>Mineralogical Magazine</i> <b>44</b> (1981), 51                                                                                     |                                                                                         |
| Tangdanite            | Ca <sub>2</sub> Cu <sub>9</sub> (AsO <sub>4</sub> ) <sub>4</sub> (SO <sub>4</sub> ) <sub>0.5</sub> (OH) <sub>9</sub> (H <sub>2</sub> O) <sub>9</sub>                                                      | A  | 2011-096  | China        | <i>Mineralogical Magazine</i> <b>78</b> (2014), 559                                                                                    | <i>Bulletin Mineralogie Petrologie</i> <b>27</b> (2019), 205                            |
| Tangeite              | CaCu(VO <sub>4</sub> )(OH)                                                                                                                                                                                | Rn | 1992 s.p. | Turkmenistan | <i>Doklady Akademii Nauk SSSR</i> (1926), 43                                                                                           | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1994), 205                           |
| Taniajacoite          | SrCaMn <sup>3+</sup> <sub>2</sub> Si <sub>4</sub> O <sub>11</sub> (OH) <sub>4</sub> (H <sub>2</sub> O) <sub>2</sub>                                                                                       | A  | 2014-107  | South Africa | <i>Canadian Mineralogist</i> <b>59</b> (2021), 431                                                                                     |                                                                                         |
| Tanohataite           | LiMn <sub>2</sub> Si <sub>3</sub> O <sub>8</sub> (OH)                                                                                                                                                     | A  | 2007-019  | Japan        | <i>Journal of Mineralogical and Petrological Sciences</i> <b>107</b> (2012), 149                                                       | <i>European Journal of Mineralogy</i> <b>30</b> (2018), 451                             |
| Tantalaeschynite-(Ce) | Ce(TiTa)O <sub>6</sub>                                                                                                                                                                                    | A  | 2023-058  | China        | CNMNC Newsletter 78 - <i>Mineralogical Magazine</i> <b>88</b> (2024), 345; <i>European Journal of Mineralogy</i> <b>36</b> (2024), 361 | <a href="https://doi.org/10.2138/am-2025-9971">https://doi.org/10.2138/am-2025-9971</a> |
| Tantalaeschynite-(Y)  | Y(TiTa)O <sub>6</sub>                                                                                                                                                                                     | Rd | 1969-043  | Brazil       | <i>Mineralogical Magazine</i> <b>39</b> (1974), 571                                                                                    |                                                                                         |

|                  |                                                                                                                                                                          |    |           |                     |                                                                                                                                        |                                                                                  |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----------|---------------------|----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
| Tantalcarbide    | TaC                                                                                                                                                                      | G  | ?         | Russia              | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>126(1)</b> (1997), 76                                                  | <i>Metallwirtschaft, Metallwissenschaft, Metalltechnik</i> <b>12</b> (1933), 298 |
| Tantalite-(Fe)   | Fe <sup>2+</sup> Ta <sub>2</sub> O <sub>6</sub>                                                                                                                          | Rn | 2007 s.p. | USA                 | <i>Records of General Science</i> <b>4</b> (1836), 407                                                                                 |                                                                                  |
| Tantalite-(Mg)   | MgTa <sub>2</sub> O <sub>6</sub>                                                                                                                                         | Rn | 2002-018  | Russia              | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>132(2)</b> (2003), 49                                                  |                                                                                  |
| Tantalite-(Mn)   | Mn <sup>2+</sup> Ta <sub>2</sub> O <sub>6</sub>                                                                                                                          | Rn | 2007 s.p. | Sweden              | <i>Geologiska Föreningens i Stockholm Förhandlingar</i> <b>3</b> (1877), 282                                                           | <i>Brazilian Journal of Physics</i> <b>31</b> (2001), 616                        |
| Tantalowodginite | (Mn <sub>0.5</sub> □ <sub>0.5</sub> )TaTa <sub>2</sub> O <sub>8</sub>                                                                                                    | A  | 2017-095  | USA                 | <i>Canadian Mineralogist</i> <b>56</b> (2018), 543                                                                                     |                                                                                  |
| Tanteuxenite-(Y) | Y(TaTi)O <sub>6</sub>                                                                                                                                                    | Rd | 2022 s.p. | Australia           | <i>Journal of the Royal Society of Western Australia</i> <b>14</b> (1928), 45                                                          |                                                                                  |
| Tantite          | Ta <sub>2</sub> O <sub>5</sub>                                                                                                                                           | A  | 1982-066  | Russia              | <i>Mineralogicheskij Zhurnal</i> <b>5</b> (1983), 90                                                                                   | <i>Journal of Solid State Chemistry</i> <b>3</b> (1971), 145                     |
| Tapiaite         | Ca <sub>5</sub> Al <sub>2</sub> (AsO <sub>4</sub> ) <sub>4</sub> (OH) <sub>4</sub> (H <sub>2</sub> O) <sub>10</sub> ·2H <sub>2</sub> O                                   | A  | 2014-024  | Chile               | <i>Mineralogical Magazine</i> <b>79</b> (2015), 345                                                                                    |                                                                                  |
| Tapiolite-(Fe)   | Fe <sup>2+</sup> Ta <sub>2</sub> O <sub>6</sub>                                                                                                                          | Rn | 2007 s.p. | Finland             | <i>Öfversigt af Kongliga Vetenskaps-Akademiens Förhandlingar</i> <b>20</b> (1863), 443                                                 | <i>Mineralogical Magazine</i> <b>70</b> (2006), 319                              |
| Tapiolite-(Mn)   | Mn <sup>2+</sup> Ta <sub>2</sub> O <sub>6</sub>                                                                                                                          | Rn | 1983-005  | Finland             | <i>Bulletin of the Geological Society of Finland</i> <b>55</b> (1983), 101                                                             | <i>Canadian Mineralogist</i> <b>34</b> (1996), 631                               |
| Taramellite      | Ba <sub>4</sub> (Fe <sup>3+</sup> ,Ti) <sub>4</sub> O <sub>2</sub> [B <sub>2</sub> Si <sub>8</sub> O <sub>27</sub> ]Cl <sub>x</sub>                                      | G  | 1908      | Italy               | <i>Rendiconti della Reale Accademia dei Lincei, Serie V</i> <b>18</b> (1908), 810                                                      | <i>American Mineralogist</i> <b>65</b> (1980), 123                               |
| Taramite         | Na(NaCa)(Mg <sub>3</sub> Al <sub>2</sub> )(Si <sub>6</sub> Al <sub>2</sub> )O <sub>22</sub> (OH) <sub>2</sub>                                                            | Rd | 2012 s.p. | Norway              | <i>American Mineralogist</i> <b>92</b> (2007), 1428                                                                                    |                                                                                  |
| Taranakite       | K <sub>3</sub> Al <sub>5</sub> (PO <sub>3</sub> OH) <sub>6</sub> (PO <sub>4</sub> ) <sub>2</sub> (H <sub>2</sub> O) <sub>12</sub> ·6H <sub>2</sub> O                     | G  | 1865      | New Zealand         | Reports of the Jurors, New Zealand Expedition (1865), 423                                                                              | <i>Inorganica Chimica Acta</i> <b>269</b> (1998), 47                             |
| Tarapacáite      | K <sub>2</sub> (CrO <sub>4</sub> )                                                                                                                                       | G  | 1878      | Chile               | Mineles del Perú. Enrique del Campo, Lima (1878), 250                                                                                  | <i>Acta Crystallographica</i> <b>B34</b> (1978), 3149                            |
| Tarbagataite     | (K□)CaFe <sup>2+</sup> <sub>7</sub> Ti <sub>2</sub> (Si <sub>4</sub> O <sub>12</sub> ) <sub>2</sub> O <sub>2</sub> (OH) <sub>5</sub>                                     | A  | 2010-048  | Kazakhstan          | <i>Canadian Mineralogist</i> <b>50</b> (2012), 159                                                                                     |                                                                                  |
| Tarbuttite       | Zn <sub>2</sub> (PO <sub>4</sub> )(OH)                                                                                                                                   | G  | 1908      | Zambia              | <i>Mineralogical Magazine</i> <b>15</b> (1908), 1                                                                                      | <i>Soviet Physics Doklady</i> <b>30</b> (1985), 329                              |
| Tarkianite       | (Cu,Fe)(Re,Mo) <sub>4</sub> S <sub>8</sub>                                                                                                                               | A  | 2003-004  | Finland             | <i>Canadian Mineralogist</i> <b>42</b> (2004), 539                                                                                     | <i>European Journal of Mineralogy</i> <b>3</b> (1991), 977                       |
| Tartarosite      | C                                                                                                                                                                        | A  | 2019-016a | Germany             | CNMNC Newsletter 72 - <i>Mineralogical Magazine</i> <b>87</b> (2023), 512; <i>European Journal of Mineralogy</i> <b>35</b> (2023), 285 |                                                                                  |
| Tarutinoite      | Ag <sub>3</sub> Pb <sub>7</sub> Bi <sub>7</sub> S <sub>19</sub>                                                                                                          | A  | 2023-122  | Russia              | <i>Mineralogical Magazine</i> <b>89</b> (2025), 483                                                                                    |                                                                                  |
| Taseqite         | Na <sub>12</sub> Sr <sub>3</sub> Ca <sub>6</sub> Fe <sub>3</sub> Zr <sub>3</sub> NbSi <sub>25</sub> O <sub>73</sub> (O,OH,H <sub>2</sub> O) <sub>3</sub> Cl <sub>2</sub> | A  | 2002-055  | Denmark (Greenland) | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (2004), 83                                                                           |                                                                                  |
| Tashelgite       | CaMgFe <sup>2+</sup> Al <sub>9</sub> O <sub>16</sub> (OH)                                                                                                                | A  | 2010-017  | Russia              | <i>Zapiski Rossiyskogo Mineralogicheskogo Obshchestva</i> <b>140(1)</b> (2011), 49                                                     | <i>Doklady Chemistry</i> <b>434</b> (2010), 233                                  |
| Tassieite        | NaCa <sub>2</sub> Mg <sub>3</sub> Fe <sup>2+</sup> <sub>2</sub> Fe <sup>3+</sup> (PO <sub>4</sub> ) <sub>6</sub> (H <sub>2</sub> O) <sub>2</sub>                         | A  | 2005-051  | Antarctica          | <i>Canadian Mineralogist</i> <b>45</b> (2007), 293                                                                                     |                                                                                  |
| Tatarinovite     | Ca <sub>3</sub> Al(SO <sub>4</sub> ) <sub>4</sub> [B(OH) <sub>4</sub> ](OH) <sub>6</sub> (H <sub>2</sub> O) <sub>12</sub>                                                | A  | 2015-055  | Russia              | <i>Zapiski Rossiyskogo Mineralogicheskogo Obshchestva</i> <b>145(1)</b> (2016), 48                                                     |                                                                                  |
| Tatarskite       | Ca <sub>6</sub> Mg <sub>2</sub> (SO <sub>4</sub> ) <sub>2</sub> (CO <sub>3</sub> ) <sub>2</sub> (OH) <sub>4</sub> Cl <sub>4</sub> ·7H <sub>2</sub> O                     | A  | 1967 s.p. | Russia              | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>92</b> (1963), 697                                                       |                                                                                  |

|                      |                                                                                                                                                             |    |           |            |                                                                                                                      |                                                                                         |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----------|------------|----------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| Tatyanaitite         | (Pt,Pd) <sub>9</sub> Cu <sub>3</sub> Sn <sub>4</sub>                                                                                                        | A  | 1995-049  | Russia     | <i>European Journal of Mineralogy</i> <b>12</b> (2000), 391                                                          | <i>Canadian Mineralogist</i> <b>38</b> (2000), 599                                      |
| Tausonite            | SrTiO <sub>3</sub>                                                                                                                                          | A  | 1982-077  | Russia     | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>113</b> (1984), 86                                     | <i>American Mineralogist</i> <b>87</b> (2002), 1183                                     |
| Tavagnascoite        | Bi <sub>4</sub> O <sub>4</sub> (SO <sub>4</sub> )(OH) <sub>2</sub>                                                                                          | A  | 2014-099  | Italy      | <i>Mineralogical Magazine</i> <b>80</b> (2016), 647                                                                  |                                                                                         |
| Tavorite             | LiFe <sup>3+</sup> (PO <sub>4</sub> )(OH)                                                                                                                   | G  | 1955      | Brazil     | <i>American Mineralogist</i> <b>40</b> (1955), 952                                                                   | <i>Geochemistry International</i> <b>35</b> (1997), 630                                 |
| Tazheranite          | (Zr,Ti,Ca)(O,□) <sub>2</sub>                                                                                                                                | A  | 1969-008  | Russia     | <i>Doklady Akademii Nauk SSSR</i> <b>186</b> (1969), 917                                                             | <i>Zeitschrift für Kristallographie</i> <b>214</b> (1999), 373                          |
| Tazieffite           | Pb <sub>20</sub> Cd <sub>2</sub> (As,Bi) <sub>22</sub> S <sub>50</sub> Cl <sub>10</sub>                                                                     | A  | 2008-012  | Russia     | <i>American Mineralogist</i> <b>94</b> (2009), 1312                                                                  |                                                                                         |
| Tazzoliite           | Ba <sub>2</sub> CaSr <sub>0.5</sub> Na <sub>0.5</sub> Ti <sub>2</sub> Nb <sub>3</sub> SiO <sub>17</sub> [PO <sub>2</sub> (OH) <sub>2</sub> ] <sub>0.5</sub> | A  | 2011-018  | Italy      | <i>Mineralogical Magazine</i> <b>76</b> (2012), 827                                                                  |                                                                                         |
| Teallite             | PbSnS <sub>2</sub>                                                                                                                                          | G  | 1904      | Bolivia    | <i>Mineralogical Magazine</i> <b>14</b> (1904), 21                                                                   | <i>Neues Jahrbuch für Mineralogie Abhandlungen</i> <b>177</b> (2002), 163               |
| Tedhadleyite         | Hg <sup>2+</sup> Hg <sup>1+</sup> <sub>10</sub> O <sub>4</sub> I <sub>2</sub> (Cl,Br) <sub>2</sub>                                                          | A  | 2001-035  | USA        | <i>Canadian Mineralogist</i> <b>40</b> (2002), 909                                                                   | <i>Mineralogical Magazine</i> <b>73</b> (2009), 227                                     |
| Teepelite            | Na <sub>2</sub> B(OH) <sub>4</sub> Cl                                                                                                                       | G  | 1939      | USA        | <i>American Mineralogist</i> <b>24</b> (1939), 48                                                                    | <i>Acta Crystallographica</i> <b>B38</b> (1982), 82                                     |
| Tegengrenite         | (Mn <sup>3+</sup> <sub>0.5</sub> Sb <sup>5+</sup> <sub>0.5</sub> )Mg <sub>2</sub> O <sub>4</sub>                                                            | Rd | 1999-002  | Sweden     | <i>American Mineralogist</i> <b>85</b> (2000), 1315                                                                  | <i>Mineralogical Magazine</i> <b>79</b> (2015), 425                                     |
| Teineite             | Cu <sup>2+</sup> (Te <sup>4+</sup> O <sub>3</sub> )(H <sub>2</sub> O) <sub>2</sub>                                                                          | G  | 1939      | Japan      | <i>Journal of the Faculty of Science, Hokkaido University, Series 4: Geology and Mineralogy</i> <b>4</b> (1939), 465 | <i>Tschermaks Mineralogische und Petrographische Mitteilungen</i> <b>24</b> (1977), 287 |
| Telargpalite         | (Pd,Ag) <sub>3</sub> Te                                                                                                                                     | A  | 1972-030  | Russia     | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>103</b> (1974), 595                                    |                                                                                         |
| Tellurantimony       | Sb <sub>2</sub> Te <sub>3</sub>                                                                                                                             | A  | 1972-002  | Canada     | <i>Canadian Mineralogist</i> <b>12</b> (1973), 55                                                                    | <i>Zeitschrift für Naturforschung</i> <b>75b</b> (2020), 411                            |
| Tellurite            | TeO <sub>2</sub>                                                                                                                                            | G  | 1845      | Romania    | Handbuch der Bestimmenden Mineralogie. Braumüller and Seidel, Wien (1845), 499                                       | <i>Zeitschrift für Kristallographie</i> <b>124</b> (1967), 228                          |
| Tellurium            | Te                                                                                                                                                          | G  | 1802      | Romania    | Beiträge zur Chemischen Kenntniss der Mineralkörper, Vol. 3. Rottmann, Berlin (1802), 2                              | <i>Acta Crystallographica</i> <b>A52</b> (1996), 408                                    |
| Tellurobismuthite    | Bi <sub>2</sub> Te <sub>3</sub>                                                                                                                             | G  | 1863      | USA        | <i>American Journal of Science and Arts</i> <b>85</b> (1863), 99                                                     | <i>Canadian Mineralogist</i> <b>45</b> (2007), 665                                      |
| Tellurohauchecornite | Ni <sub>9</sub> BiTeS <sub>8</sub>                                                                                                                          | A  | 1978 s.p. | Canada     | <i>Mineralogical Magazine</i> <b>43</b> (1980), 877                                                                  |                                                                                         |
| Telluromandarinoite  | Fe <sup>3+</sup> <sub>2</sub> (Te <sup>4+</sup> O <sub>3</sub> ) <sub>3</sub> (H <sub>2</sub> O) <sub>3</sub> ·3H <sub>2</sub> O                            | A  | 2011-013  | Chile      | <i>Canadian Mineralogist</i> <b>55</b> (2017), 21                                                                    |                                                                                         |
| Telluronevskite      | Bi <sub>3</sub> TeSe <sub>2</sub>                                                                                                                           | A  | 1993-027a | Slovakia   | <i>European Journal of Mineralogy</i> <b>13</b> (2001), 177                                                          |                                                                                         |
| Telluropalladinite   | Pd <sub>9</sub> Te <sub>4</sub>                                                                                                                             | A  | 1978-078  | USA        | <i>Canadian Mineralogist</i> <b>17</b> (1979), 589                                                                   | <i>Journal of the Less-Common Metals</i> <b>58</b> (1978), 39                           |
| Telluroperite        | Pb(Te <sub>0.5</sub> Pb <sub>0.5</sub> )O <sub>2</sub> Cl                                                                                                   | A  | 2009-044  | USA        | <i>American Mineralogist</i> <b>95</b> (2010), 1569                                                                  |                                                                                         |
| Telyushenkoite       | CsNa <sub>6</sub> Be <sub>2</sub> Al <sub>3</sub> Si <sub>15</sub> O <sub>39</sub> F <sub>2</sub>                                                           | A  | 2001-012  | Tajikistan | <i>New Data on Minerals</i> <b>38</b> (2003), 5                                                                      | <i>Canadian Mineralogist</i> <b>40</b> (2002), 183                                      |
| Temagamite           | Pd <sub>3</sub> HgTe <sub>3</sub>                                                                                                                           | A  | 1973-018  | Canada     | <i>Canadian Mineralogist</i> <b>12</b> (1973), 193                                                                   | <i>European Journal of Mineralogy</i> <b>28</b> (2016), 825                             |
| Tengchongite         | Ca(UO <sub>2</sub> ) <sub>6</sub> (MoO <sub>4</sub> OH) <sub>2</sub> O <sub>2</sub> (OH) <sub>4</sub> (H <sub>2</sub> O) <sub>4</sub> ·5H <sub>2</sub> O    | A  | 1984-031  | China      | <i>Kexue Tongbao</i> <b>31</b> (1986), 396                                                                           | <i>Canadian Mineralogist</i> <b>60</b> (2022), 533                                      |
| Tengerite-(Y)        | Y <sub>2</sub> (CO <sub>3</sub> ) <sub>3</sub> (H <sub>2</sub> O) <sub>n</sub> (n = 2-3)                                                                    | Rd | 1993 s.p. | Sweden     | A System of Mineralogy, 5th ed. Wiley, New York (1868), 710                                                          | <i>American Mineralogist</i> <b>78</b> (1993), 425                                      |
| Tennantite-(Cd)      | Cu <sub>6</sub> (Cu <sub>4</sub> Cd <sub>2</sub> )As <sub>4</sub> S <sub>13</sub>                                                                           | A  | 2021-083  | Bolivia    | <i>Mineralogical Magazine</i> <b>86</b> (2022), 834                                                                  |                                                                                         |
| Tennantite-(Cu)      | Cu <sub>6</sub> (Cu <sub>4</sub> Cu <sub>2</sub> )As <sub>4</sub> S <sub>13</sub>                                                                           | A  | 2020-096  | Peru       | <i>Mineralogical Magazine</i> <b>86</b> (2022), 331                                                                  |                                                                                         |

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| Tennantite-(Fe)      | $\text{Cu}_6(\text{Cu}_4\text{Fe}_2)\text{As}_4\text{S}_{13}$                                                       | Rd | 2019 s.p. | United Kingdom | <i>Quarterly Journal of Literature, Science and the Arts</i> <b>7</b> (1819), 95                                                       | <i>Canadian Mineralogist</i> <b>43</b> (2005), 679                                          |
| Tennantite-(Hg)      | $\text{Cu}_6(\text{Cu}_4\text{Hg}_2)\text{As}_4\text{S}_{13}$                                                       | A  | 2020-063  | Switzerland    | <i>Mineralogical Magazine</i> <b>85</b> (2021), 744                                                                                    |                                                                                             |
| Tennantite-(In)      | $\text{Cu}_6(\text{Cu}_5\text{In})\text{As}_4\text{S}_{13}$                                                         | A  | 2023-011  | Greece         | <i>Mineralogical Magazine</i> <b>90</b> (2026), 417                                                                                    | <a href="https://doi.org/10.1180/mgm.2025.10140">https://doi.org/10.1180/mgm.2025.10140</a> |
| Tennantite-(Mn)      | $\text{Cu}_6(\text{Cu}_4\text{Mn}_2)\text{As}_4\text{S}_{13}$                                                       | A  | 2022-040  | Chile          | CNMNC Newsletter 69 - <i>Mineralogical Magazine</i> <b>86</b> (2022), 988; <i>European Journal of Mineralogy</i> <b>34</b> (2022), 463 |                                                                                             |
| Tennantite-(Ni)      | $\text{Cu}_6(\text{Cu}_4\text{Ni}_2)\text{As}_4\text{S}_{13}$                                                       | A  | 2021-018  | China          | <i>Mineralogical Magazine</i> <b>87</b> (2023), 591                                                                                    |                                                                                             |
| Tennantite-(Zn)      | $\text{Cu}_6(\text{Cu}_4\text{Zn}_2)\text{As}_4\text{S}_{13}$                                                       | Rd | 2019 s.p. | Switzerland    | <i>Annales des Mines</i> <b>5</b> (1855), 389                                                                                          | <i>Zeitschrift für Kristallographie</i> <b>123</b> (1966), 1                                |
| Tenorite             | $\text{CuO}$                                                                                                        | A  | 1962 s.p. | Italy          | <i>Bulletin de la Société Géologique de France</i> <b>13</b> (1842), 206                                                               | <i>Journal of Applied Crystallography</i> <b>36</b> (2003), 206                             |
| Tephroite            | $\text{Mn}^{2+}_2(\text{SiO}_4)$                                                                                    | G  | 1823      | USA            | Vollständige Charakteristik des Mineral-Systems. Arnoldische, Dresden (1823), 278                                                      | <i>Mineralogical Magazine</i> <b>62</b> (1998), 607                                         |
| Terlinguacreekite    | $\text{Hg}^{2+}_3\text{O}_2\text{Cl}_2$                                                                             | A  | 2004-018  | USA            | <i>Canadian Mineralogist</i> <b>43</b> (2005), 1055                                                                                    |                                                                                             |
| Terlinguaite         | $\text{Hg}_2\text{OCl}$                                                                                             | G  | 1900      | USA            | <i>Mining and Scientific Press</i> <b>81</b> (1900), 64                                                                                | <i>Zeitschrift für Anorganische und Allgemeine Chemie</i> <b>575</b> (1989), 145            |
| Ternesite            | $\text{Ca}_5(\text{SiO}_4)_2(\text{SO}_4)$                                                                          | A  | 1995-015  | Germany        | <i>Mineralogy and Petrology</i> <b>60</b> (1997), 121                                                                                  | <i>European Journal of Mineralogy</i> <b>28</b> (2016), 105                                 |
| Ternovite            | $\text{MgNb}_4\text{O}_{11} \cdot 8\text{-}12\text{H}_2\text{O}$                                                    | A  | 1992-044  | Russia         | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1997), 49                                                                           | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>127(3)</b> (1998), 86       |
| Terranovaite         | $\text{NaCaAl}_3\text{Si}_{17}\text{O}_{40} \cdot \approx 8\text{H}_2\text{O}$                                      | A  | 1995-026  | Antarctica     | <i>American Mineralogist</i> <b>82</b> (1997), 423                                                                                     |                                                                                             |
| Terrywallaceite      | $\text{AgPb}(\text{Sb,Bi})_3\text{S}_6$                                                                             | A  | 2011-017  | Peru           | <i>American Mineralogist</i> <b>98</b> (2013), 1310                                                                                    |                                                                                             |
| Terskite             | $\text{Na}_4\text{ZrSi}_6\text{O}_{16}(\text{H}_2\text{O})_2$                                                       | A  | 1982-039  | Russia         | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>112</b> (1983), 226                                                      | <i>Doklady Akademii Nauk SSSR</i> <b>316</b> (1991), 645                                    |
| Tertschite           | $\text{Ca}_4\text{B}_{10}\text{O}_{19} \cdot 20\text{H}_2\text{O}$                                                  | Q  | 1953      | Turkey         | <i>Fortschritte der Mineralogie</i> <b>31</b> (1953), 39                                                                               |                                                                                             |
| Teruggite            | $\text{Ca}_4\text{Mg}[\text{AsB}_6\text{O}_{11}(\text{OH})_6]_2(\text{H}_2\text{O})_{12} \cdot 2\text{H}_2\text{O}$ | A  | 1968-007  | Argentina      | <i>American Mineralogist</i> <b>53</b> (1968), 1815                                                                                    | <i>American Mineralogist</i> <b>58</b> (1973), 1034                                         |
| Teschemacherite      | $(\text{NH}_4)\text{H}(\text{CO}_3)$                                                                                | G  | 1868      | South Africa   | A System of Mineralogy, 5th ed. Wiley, New York (1868), 705                                                                            | <i>Tschermaks Mineralogische und Petrographische Mitteilungen</i> <b>29</b> (1981), 67      |
| Testibiopalladite    | $\text{PdSbTe}$                                                                                                     | Rd | 2023 s.p. | China          | <i>Geochimica</i> <b>3</b> (1974), 169                                                                                                 | <i>Canadian Journal of Mineralogy and Petrology</i> <b>62</b> (2024), 307                   |
| Tetra-auricupride    | $\text{CuAu}$                                                                                                       | A  | 1982-005  | China          | <i>Scientia Geologica Sinica</i> (1982), 111                                                                                           | <i>Canadian Mineralogist</i> <b>28</b> (1990), 751                                          |
| Tetradymite          | $\text{Bi}_2\text{Te}_2\text{S}$                                                                                    | G  | 1831      | Slovakia       | <i>Zeitschrift für Physik und Mathematik</i> <b>9</b> (1831), 129                                                                      | <i>Acta Crystallographica</i> <b>B79</b> (2023), 482                                        |
| Tetraferriannite     | $\text{KFe}^{2+}_3(\text{Si}_3\text{Fe}^{3+})\text{O}_{10}(\text{OH})_2$                                            | Rn | 1998 s.p. | Australia      | <i>American Journal of Science</i> <b>261</b> (1963), 581                                                                              | <i>American Mineralogist</i> <b>84</b> (1999), 325                                          |
| Tetraferriphlogopite | $\text{KMg}_3(\text{Si}_3\text{Fe}^{3+})\text{O}_{10}(\text{OH})_2$                                                 | Rn | 1998 s.p. | Russia         | <i>Soviet Physics - Crystallography</i> <b>22</b> (1977), 680                                                                          | <i>Clays and Clay Minerals</i> <b>44</b> (1996), 540                                        |
| Tetraferroplatinum   | $\text{PtFe}$                                                                                                       | A  | 1974-012b | South Africa   | <i>Canadian Mineralogist</i> <b>13</b> (1975), 117                                                                                     | <i>Canadian Mineralogist</i> <b>28</b> (1990), 751                                          |
| Tetrahedrite-(Cd)    | $\text{Cu}_6(\text{Cu}_4\text{Cd}_2)\text{Sb}_4\text{S}_{13}$                                                       | A  | 2022-115  | Czech Republic | <i>European Journal of Mineralogy</i> <b>35</b> (2023), 897                                                                            |                                                                                             |
| Tetrahedrite-(Cu)    | $\text{Cu}_6(\text{Cu}_4\text{Cu}_2)\text{Sb}_4\text{S}_{13}$                                                       | A  | 2022-078  | Slovakia       | <i>Mineralogical Magazine</i> <b>88</b> (2024), 392                                                                                    |                                                                                             |

|                             |                                                                                                      |    |           |                                   |                                                                                                                                        |                                                                           |
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| Tetrahedrite-(Fe)           | $\text{Cu}_6(\text{Cu}_4\text{Fe}_2)\text{Sb}_4\text{S}_{13}$                                        | Rd | 2019 s.p. | Italy                             | <i>Continuazione degli Atti della Reale Accademia dei Georgofili di Firenze</i> <b>10</b> (1863), 201                                  |                                                                           |
| Tetrahedrite-(Hg)           | $\text{Cu}_6(\text{Cu}_4\text{Hg}_2)\text{Sb}_4\text{S}_{13}$                                        | A  | 2019-003  | Italy / Czech Republic / Slovakia | <i>Mineralogical Magazine</i> <b>84</b> (2020), 584                                                                                    | <i>Ore Geology Reviews</i> <b>164</b> (2024), 105847                      |
| Tetrahedrite-(Mn)           | $\text{Cu}_6(\text{Cu}_4\text{Mn}_2)\text{Sb}_4\text{S}_{13}$                                        | A  | 2021-098  | Japan                             | CNMNC Newsletter 65 - <i>Mineralogical Magazine</i> <b>86</b> (2022), 354; <i>European Journal of Mineralogy</i> <b>34</b> (2022), 143 |                                                                           |
| Tetrahedrite-(Ni)           | $\text{Cu}_6(\text{Cu}_4\text{Ni}_2)\text{Sb}_4\text{S}_{13}$                                        | A  | 2021-031  | China                             | <i>American Mineralogist</i> <b>108</b> (2023), 1984                                                                                   |                                                                           |
| Tetrahedrite-(Zn)           | $\text{Cu}_6(\text{Cu}_4\text{Zn}_2)\text{Sb}_4\text{S}_{13}$                                        | Rd | 2019 s.p. | Germany                           | Handbuch der Bestimmenden Mineralogie. Braumüller and Seidel, Wien (1845), 563                                                         | <i>American Mineralogist</i> <b>70</b> (1985), 165                        |
| Tetraroseveltite            | $\text{Bi}(\text{AsO}_4)$                                                                            | A  | 1993-006  | Czech Republic                    | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1994), 179                                                                          | <i>Acta Crystallographica</i> <b>1</b> (1948), 163                        |
| Tetrataenite                | $\text{FeNi}$                                                                                        | A  | 1979-076  | USA (meteorite)                   | <i>American Mineralogist</i> <b>65</b> (1980), 624                                                                                     | <i>Physics and Chemistry of Minerals</i> <b>48</b> (2021), 11             |
| Tetrawickmanite             | $\text{Mn}^{2+}\text{Sn}^{4+}(\text{OH})_6$                                                          | A  | 1971-018  | USA                               | <i>Mineralogical Record</i> <b>4</b> (1973), 24                                                                                        | <i>Acta Crystallographica</i> <b>E71</b> (2015), 234                      |
| Tewite                      | $(\text{K}_{1.5}\square_{0.5})(\text{Te}_{1.25}\text{W}_{0.25}\square_{0.5})\text{W}_5\text{O}_{19}$ | A  | 2014-053  | China                             | <i>European Journal of Mineralogy</i> <b>31</b> (2019), 145                                                                            |                                                                           |
| Thadeuite                   | $\text{CaMg}_3(\text{PO}_4)_2(\text{OH},\text{F})_2$                                                 | A  | 1978-001  | Portugal                          | <i>American Mineralogist</i> <b>64</b> (1979), 359                                                                                     | <i>American Mineralogist</i> <b>67</b> (1982), 120                        |
| Thalculusite                | $\text{Ti}_2(\text{Cu}^+_3\text{Fe}^{3+})\text{S}_4$                                                 | A  | 1975-023  | Russia                            | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>105</b> (1976), 202                                                      | <i>Neues Jahrbuch für Mineralogie Abhandlungen</i> <b>138</b> (1980), 122 |
| Thalénite-(Y)               | $\text{Y}_3\text{Si}_3\text{O}_{10}\text{F}$                                                         | Rd | 2014 s.p. | Sweden                            | <i>Geologiska Föreningens i Stockholm Förhandlingar</i> <b>20</b> (1898), 308                                                          | <i>Mineralogical Magazine</i> <b>82</b> (2018), 313                       |
| Thalfenisite                | $\text{Ti}_6(\text{Fe},\text{Ni})_{25}\text{S}_{26}\text{Cl}$                                        | A  | 1979-018  | Russia                            | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>108</b> (1979), 696                                                      |                                                                           |
| Thalhammerite               | $\text{Pd}_9\text{Ag}_2\text{Bi}_2\text{S}_4$                                                        | A  | 2017-111  | Russia                            | <i>Minerals</i> <b>8</b> (2018), 339                                                                                                   |                                                                           |
| Thalliomelane               | $\text{Ti}(\text{Mn}^{4+}_{7.5}\text{Cu}^{2+}_{0.5})\text{O}_{16}$                                   | A  | 2019-055  | Poland                            | <i>American Mineralogist</i> <b>106</b> (2021), 2020                                                                                   |                                                                           |
| Thalliumpharmacosiderite    | $\text{TiFe}^{3+}_4[(\text{AsO}_4)_3(\text{OH})_4]\cdot 4\text{H}_2\text{O}$                         | A  | 2013-124  | North Macedonia                   | CNMNC Newsletter 20 - <i>Mineralogical Magazine</i> <b>78</b> (2014), 549                                                              |                                                                           |
| Thaumasite                  | $\text{Ca}_3\text{Si}(\text{OH})_6(\text{CO}_3)(\text{SO}_4)(\text{H}_2\text{O})_{12}$               | G  | 1878      | Sweden                            | <i>Comptes Rendus Hebdomadaires des Séances de l'Académie des Sciences</i> <b>87</b> (1878), 313                                       | <i>American Mineralogist</i> <b>97</b> (2012), 1060                       |
| Thebaite-(NH <sub>4</sub> ) | $(\text{NH}_4)_3\text{Al}(\text{C}_2\text{O}_4)(\text{PO}_3\text{OH})_2(\text{H}_2\text{O})$         | A  | 2020-072  | USA                               | <i>Mineralogical Magazine</i> <b>85</b> (2021), 379                                                                                    |                                                                           |
| Theisite                    | $\text{Cu}_5\text{Zn}_5(\text{AsO}_4)_2(\text{OH})_{14}$                                             | A  | 1980-040  | USA                               | <i>Mineralogical Magazine</i> <b>46</b> (1982), 49                                                                                     |                                                                           |
| Thénardite                  | $\text{Na}_2(\text{SO}_4)$                                                                           | Rn | 2014 s.p. | Spain                             | <i>Annals of Philosophy</i> <b>12</b> (1826), 312                                                                                      | <i>Journal of Applied Crystallography</i> <b>29</b> (1996), 42            |
| Theoparacelsite             | $\text{Cu}_3(\text{OH})_2\text{As}_2\text{O}_7$                                                      | A  | 1998-012  | France                            | <i>Archives des Sciences de Genève</i> <b>54</b> (2001), 7                                                                             |                                                                           |
| Theophrastite               | $\text{Ni}(\text{OH})_2$                                                                             | A  | 1980-059  | Greece                            | <i>American Mineralogist</i> <b>66</b> (1981), 1020                                                                                    | <i>Powder Diffraction</i> <b>20</b> (2005), 334                           |
| Therasiaite                 | $(\text{NH}_4)_3\text{KNa}_2\text{Fe}^{2+}\text{Fe}^{3+}(\text{SO}_4)_3\text{Cl}_5$                  | A  | 2013-050  | Italy                             | <i>Mineralogical Magazine</i> <b>78</b> (2014), 203                                                                                    |                                                                           |
| Thérèsemagnanite            | $\text{NaCo}_4(\text{SO}_4)(\text{OH})_6\text{Cl}(\text{H}_2\text{O})_6$                             | Rd | 1991-026  | France                            | <i>Archives des Sciences de Genève</i> <b>46</b> (1993), 37                                                                            | <i>Mineralogical Magazine</i> <b>83</b> (2019), 459                       |
| Thermaerogenite             | $\text{CuAl}_2\text{O}_4$                                                                            | A  | 2018-021  | Russia                            | <i>Minerals</i> <b>8</b> (2018), 498                                                                                                   |                                                                           |
| Thermessaite                | $\text{K}_2\text{AlF}_3(\text{SO}_4)$                                                                | A  | 2007-030  | Italy                             | <i>Canadian Mineralogist</i> <b>46</b> (2008), 693                                                                                     |                                                                           |

|                                 |                                                                                                                                                                   |    |           |                                  |                                                                                                                                        |                                                                                         |
|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----------|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| Thermessaite-(NH <sub>4</sub> ) | (NH <sub>4</sub> ) <sub>2</sub> AlF <sub>3</sub> (SO <sub>4</sub> )                                                                                               | A  | 2011-077  | Italy                            | <i>Mineralogical Magazine</i> <b>85</b> (2021), 665                                                                                    |                                                                                         |
| Thermonatrite                   | Na <sub>2</sub> (CO <sub>3</sub> )(H <sub>2</sub> O)                                                                                                              | G  | 1845      | Russia                           | Handbuch der Bestimmenden Mineralogie. Braumüller and Seidel, Wien (1845)                                                              | <i>Acta Crystallographica</i> <b>B31</b> (1975), 890                                    |
| Theuerdankite                   | Ag <sub>3</sub> (AsO <sub>4</sub> )                                                                                                                               | A  | 2023-009  | Germany                          | <i>Mineralogical Magazine</i> <b>88</b> (2024), 557                                                                                    |                                                                                         |
| Thionasilite                    | Na <sub>2</sub> Si <sub>2</sub> S <sub>2</sub> O <sub>3</sub>                                                                                                     | A  | 2025-021  | Oman (meteorite)                 | CNMNC Newsletter 86 - <i>Mineralogical Magazine</i> <b>89</b> (2025), 544; <i>European Journal of Mineralogy</i> <b>37</b> (2025), 549 |                                                                                         |
| Thomasclarkite-(Y)              | NaY(HCO <sub>3</sub> )(OH) <sub>3</sub> (H <sub>2</sub> O) <sub>2</sub> ·2H <sub>2</sub> O                                                                        | A  | 1997-047  | Canada                           | <i>Canadian Mineralogist</i> <b>36</b> (1998), 1293                                                                                    |                                                                                         |
| Thometzekite                    | PbCu <sup>2+</sup> <sub>2</sub> (AsO <sub>4</sub> ) <sub>2</sub> (H <sub>2</sub> O) <sub>2</sub>                                                                  | A  | 1982-103  | Namibia                          | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1985), 446                                                                          | <i>European Journal of Mineralogy</i> <b>10</b> (1998), 179                             |
| Thomsenolite                    | NaCaAlF <sub>6</sub> (H <sub>2</sub> O)                                                                                                                           | G  | 1868      | Denmark (Greenland)              | A System of Mineralogy, 5th ed. Wiley, New York (1868), 129                                                                            | <i>Canadian Journal of Chemistry</i> <b>63</b> (1985), 3322                             |
| Thomsonite-Ca                   | NaCa <sub>2</sub> (Al <sub>5</sub> Si <sub>5</sub> )O <sub>20</sub> ·6H <sub>2</sub> O                                                                            | Rn | 1997 s.p. | United Kingdom                   | <i>Annals of Philosophy</i> <b>16</b> (1820), 193                                                                                      | <i>American Mineralogist</i> <b>95</b> (2010), 495                                      |
| Thomsonite-Sr                   | NaSr <sub>2</sub> (Al <sub>5</sub> Si <sub>5</sub> )O <sub>20</sub> ·6-7H <sub>2</sub> O                                                                          | A  | 2000-025  | Russia                           | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>130(4)</b> (2001), 46                                                  | <i>Doklady Earth Sciences</i> <b>376</b> (2001), 101                                    |
| Thorasphite                     | Th <sub>2</sub> H(AsO <sub>4</sub> ) <sub>2</sub> (PO <sub>4</sub> )·6H <sub>2</sub> O                                                                            | A  | 2017-085  | Australia                        | <i>Canadian Mineralogist</i> <b>60</b> (2022), 719                                                                                     |                                                                                         |
| Thorbastnäsité                  | ThCa(CO <sub>3</sub> ) <sub>2</sub> F <sub>2</sub> ·3H <sub>2</sub> O                                                                                             | A  | 1968 s.p. | Russia                           | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>94</b> (1965), 105                                                       |                                                                                         |
| Thoreaulite                     | Sn <sup>2+</sup> Ta <sub>2</sub> O <sub>6</sub>                                                                                                                   | G  | 1933      | Democratic Republic of the Congo | <i>Bulletin de la Société Géologique de Belgique</i> <b>56</b> (1933), 327                                                             | <i>European Journal of Mineralogy</i> <b>20</b> (2008), 501                             |
| Thorianite                      | ThO <sub>2</sub>                                                                                                                                                  | G  | 1904      | Sri Lanka                        | <i>Nature</i> <b>69</b> (1904), 510                                                                                                    |                                                                                         |
| Thorikosite                     | Pb <sub>3</sub> O <sub>3</sub> Sb <sup>3+</sup> (OH)Cl <sub>2</sub>                                                                                               | A  | 1984-013  | Greece                           | <i>American Mineralogist</i> <b>70</b> (1985), 845                                                                                     | <i>Journal of Solid State Chemistry</i> <b>57</b> (1985), 389                           |
| Thorite                         | Th(SiO <sub>4</sub> )                                                                                                                                             | G  | 1829      | Norway                           | <i>Kongliga Svenska Vetenskaps-Akademiens Handlingar</i> (1829), 1                                                                     | <i>Canadian Mineralogist</i> <b>51</b> (2013), 597                                      |
| Thornasite                      | Na <sub>12</sub> Th <sub>3</sub> (Si <sub>8</sub> O <sub>19</sub> ) <sub>4</sub> (H <sub>2</sub> O) <sub>12</sub> ·6H <sub>2</sub> O                              | A  | 1985-050  | Canada                           | <i>Canadian Mineralogist</i> <b>25</b> (1987), 181                                                                                     | <i>American Mineralogist</i> <b>85</b> (2000), 1521                                     |
| Thorneite                       | Pb <sub>6</sub> (Te <sub>2</sub> O <sub>10</sub> )(CO <sub>3</sub> )Cl <sub>2</sub> (H <sub>2</sub> O)                                                            | A  | 2009-023  | USA                              | <i>American Mineralogist</i> <b>95</b> (2010), 1548                                                                                    |                                                                                         |
| Thorosteenstrupine              | (Ca, Th, Mn) <sub>3</sub> Si <sub>4</sub> O <sub>11</sub> F·6H <sub>2</sub> O                                                                                     | A  | 1967 s.p. | Russia                           | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>91</b> (1962), 325                                                       |                                                                                         |
| Thortveitite                    | Sc <sub>2</sub> Si <sub>2</sub> O <sub>7</sub>                                                                                                                    | G  | 1911      | Norway                           | <i>Centralblatt für Mineralogie, Geologie und Paläontologie</i> (1911), 721                                                            | <i>Journal of Applied Crystallography</i> <b>44</b> (2011), 846                         |
| Thorutite                       | ThTi <sub>2</sub> O <sub>6</sub>                                                                                                                                  | G  | 1958      | Kyrgyzstan                       | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>87</b> (1958), 201                                                       | <i>Physics and Chemistry of Minerals</i> <b>26</b> (1999), 396                          |
| Threadgoldite                   | Al(UO <sub>2</sub> ) <sub>2</sub> (PO <sub>4</sub> ) <sub>2</sub> (OH)(H <sub>2</sub> O) <sub>4</sub> ·4H <sub>2</sub> O                                          | A  | 1978-066  | Democratic Republic of the Congo | <i>Bulletin de Minéralogie</i> <b>102</b> (1979), 338                                                                                  | <i>Tschermaks Mineralogische und Petrographische Mitteilungen</i> <b>30</b> (1982), 111 |
| Thunderbayite                   | TlAg <sub>3</sub> Au <sub>3</sub> Sb <sub>7</sub> S <sub>6</sub>                                                                                                  | A  | 2020-042  | Canada                           | <i>Mineralogical Magazine</i> <b>84</b> (2020), 805                                                                                    |                                                                                         |
| Tianhongqiite                   | CrTiO <sub>3</sub> (OH)                                                                                                                                           | A  | 2021-006b | China                            | CNMNC Newsletter 68 - <i>Mineralogical Magazine</i> <b>86</b> (2022), 854; <i>European Journal of Mineralogy</i> <b>34</b> (2022), 385 |                                                                                         |
| Tianhuixinite                   | (MoO <sub>3</sub> ) <sub>3</sub> ·H <sub>2</sub> O                                                                                                                | A  | 2022-081  | USA                              | <i>European Journal of Mineralogy</i> <b>38</b> (2026), 39                                                                             |                                                                                         |
| Tiberiobardiite                 | {Cu <sub>9</sub> Al[SiO <sub>3</sub> (OH)] <sub>2</sub> (OH) <sub>12</sub> (H <sub>2</sub> O) <sub>6</sub> }(SO <sub>4</sub> ) <sub>1.5</sub> ·10H <sub>2</sub> O | A  | 2016-096  | Italy                            | <i>Minerals</i> <b>8</b> (2018), 152                                                                                                   |                                                                                         |

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|----------------|---------------------------------------------------------------------------|----|-----------|---------------------|--------------------------------------------------------------------------------------------|---------------------------------------------------------------|
| Tiemannite     | HgSe                                                                      | G  | 1855      | Germany             | Elemente der Mineralogie. Engelmann, Leipzig (1855), 425                                   | <i>American Mineralogist</i> <b>35</b> (1950), 337            |
| Tianshanite    | $K(Na,K,\square)_9Ca_2Ba_6Mn^{2+}_6Ti_6B_{12}Si_{36}O_{114}(O,OH,F)_{11}$ | A  | 1967-028  | Tajikistan          | <i>Doklady Akademii Nauk SSSR</i> <b>177</b> (1967), 678                                   | <i>Canadian Mineralogist</i> <b>36</b> (1998), 1305           |
| Tiettaite      | $K_4Na_{12}Fe^{3+}_2Si_{16}O_{41}(OH)_4(H_2O)_2$                          | Rd | 2021 s.p. | Russia              | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>122(1)</b> (1993), 121     | <i>Crystallography Reports</i> <b>66</b> (2021), 76           |
| Tikhonenkovite | $SrAlF_4(OH)(H_2O)_2$                                                     | A  | 1967 s.p. | Russia              | <i>Doklady Akademii Nauk SSSR</i> <b>156</b> (1964), 345                                   | <i>Journal of Structural Chemistry</i> <b>14</b> (1973), 445  |
| Tilasite       | $CaMg(AsO_4)F$                                                            | G  | 1895      | Sweden              | <i>Geologiska Föreningens i Stockholm Förhandlingar</i> <b>17</b> (1895), 291              | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1994), 289 |
| Tilkerodeite   | $Pd_2HgSe_3$                                                              | A  | 2019-111  | Germany             | <i>Crystals</i> <b>10</b> (2020), 687                                                      |                                                               |
| Tilleyite      | $Ca_5Si_2O_7(CO_3)_2$                                                     | G  | 1933      | USA                 | <i>American Mineralogist</i> <b>18</b> (1933), 469                                         | <i>Canadian Mineralogist</i> <b>43</b> (2005), 1489           |
| Tillmannsite   | $HgAg_3(VO_4)$                                                            | A  | 2001-010  | France              | <i>European Journal of Mineralogy</i> <b>15</b> (2003), 177                                |                                                               |
| Timroseite     | $Pb_2Cu_5(TeO_6)_2(OH)_2$                                                 | A  | 2009-064  | USA                 | <i>American Mineralogist</i> <b>95</b> (2010), 1560                                        |                                                               |
| Tin            | Sn                                                                        | G  | 1844      | Russia              | <i>Journal für Praktische Chemie</i> <b>33</b> (1844), 282                                 | <i>Journal of Applied Physics</i> <b>20</b> (1949), 726       |
| Tinaksite      | $K_2NaCa_2TiSi_7O_{18}(OH)O$                                              | A  | 1968 s.p. | Russia              | <i>Doklady Akademii Nauk SSSR</i> <b>162</b> (1965), 658                                   | <i>Mineralogical Magazine</i> <b>81</b> (2017), 251           |
| Tincalconite   | $Na_2B_4O_5(OH)_4(H_2O)_3$                                                | G  | 1878      | USA                 | <i>Bulletin de la Société Minéralogique de France</i> <b>1</b> (1878), 144                 | <i>American Mineralogist</i> <b>87</b> (2002), 350            |
| Tinnunculite   | $C_5H_4N_4O_3 \cdot 2H_2O$                                                | A  | 2015-021a | Russia              | <i>Zapiski Rossiyskogo Mineralogicheskogo Obshchestva</i> <b>145(4)</b> (2016), 20         | <i>Minerals</i> <b>9</b> (2019), 373                          |
| Tinsleyite     | $KAl_2(PO_4)_2(OH)(H_2O)_2$                                               | A  | 1983-004  | USA                 | <i>American Mineralogist</i> <b>69</b> (1984), 374                                         | <i>Canadian Mineralogist</i> <b>50</b> (2012), 559            |
| Tinticite      | $Fe^{3+}_3(PO_4)_2(OH)_3(H_2O)_3$                                         | G  | 1946      | USA                 | <i>American Mineralogist</i> <b>31</b> (1946), 395                                         | <i>European Journal of Mineralogy</i> <b>28</b> (2016), 71    |
| Tintinaite     | $Pb_{10}Cu_2Sb_{16}S_{35}$                                                | A  | 1967-010  | Canada              | <i>Canadian Mineralogist</i> <b>9</b> (1968), 371                                          | <i>Canadian Mineralogist</i> <b>22</b> (1984), 219            |
| Tinzenite      | $Ca_2Mn^{2+}_4Al_4[B_2Si_8O_{30}](OH)_2$                                  | Rd | 2016 s.p. | Switzerland         | <i>Schweizerische Mineralogische und Petrographische Mitteilungen</i> <b>3</b> (1923), 227 | <i>European Journal of Mineralogy</i> <b>30</b> (2018), 177   |
| Tiptopite      | $K_2(Li,Na,Ca)_6(Be_6P_6)O_{24}(OH)_2 \cdot 1.3H_2O$                      | A  | 1983-007  | USA                 | <i>Canadian Mineralogist</i> <b>23</b> (1985), 43                                          | <i>American Mineralogist</i> <b>72</b> (1987), 816            |
| Tiragalloite   | $Mn^{2+}_4As^{5+}_3Si_3O_{12}(OH)$                                        | A  | 1979-061  | Italy               | <i>American Mineralogist</i> <b>65</b> (1980), 947                                         | <i>Periodico di Mineralogia</i> <b>89</b> (2020), 77          |
| Tischendorfite | $Pd_8Hg_3Se_9$                                                            | A  | 2001-061  | Germany             | <i>Canadian Mineralogist</i> <b>40</b> (2002), 739                                         | <i>European Journal of Mineralogy</i> <b>26</b> (2014), 157   |
| Tisinalite     | $Na_3Mn^{2+}TiSi_6O_{15}(OH)_3$                                           | A  | 1979-052  | Russia              | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>109</b> (1980), 223          | <i>Crystallography Reports</i> <b>48</b> (2003), 551          |
| Tissintite     | $(Ca,Na,\square)AlSi_2O_6$                                                | A  | 2013-027  | Morocco (meteorite) | <i>Earth and Planetary Science Letters</i> <b>422</b> (2015), 194                          | <i>American Mineralogist</i> <b>103</b> (2018), 1516          |
| Tistarite      | $Ti_2O_3$                                                                 | A  | 2008-016  | Mexico (meteorite)  | <i>American Mineralogist</i> <b>94</b> (2009), 841                                         |                                                               |
| Titanite       | $CaTiO(SiO_4)$                                                            | A  | 1967 s.p. | Germany             | Beiträge zur Chemischen Kenntniss der Mineralkörper, Vol. 1. Decker, Berlin (1795), 245    | <i>American Mineralogist</i> <b>85</b> (2000), 1465           |
| Titanium       | Ti                                                                        | A  | 2010-044  | China               | <i>Acta Geologica Sinica</i> <b>87</b> (2013), 1275                                        |                                                               |
| Titanoholtite  | $(Ti_{0.75}\square_{0.25})Al_6BSi_3O_{18}$                                | A  | 2012-069  | Poland              | <i>Mineralogical Magazine</i> <b>77</b> (2013), 2841                                       |                                                               |
| Titanomagemite | $(Ti_{0.5}\square_{0.5})Fe^{3+}_2O_4$                                     | Rd | 1959      | South Africa        | <i>Economic Geology</i> <b>54</b> (1959), 698                                              | <i>American Mineralogist</i> <b>73</b> (1988), 153            |

|                  |                                                                                                                                                                                      |    |           |                       |                                                                                                                                        |                                                                       |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----------|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|
| Titanowodginite  | $\text{Mn}^{2+}\text{TiTa}_2\text{O}_8$                                                                                                                                              | A  | 1984-008  | Canada                | <i>Canadian Mineralogist</i> <b>30</b> (1992), 633                                                                                     |                                                                       |
| Titantaramellite | $\text{Ba}_4(\text{Ti}, \text{Fe}^{3+}, \text{Mg})_4(\text{O}, \text{OH})_2[\text{B}_2\text{Si}_8\text{O}_{27}]\text{Cl}_x$                                                          | A  | 1977-046  | Canada / Mexico / USA | <i>American Mineralogist</i> <b>69</b> (1984), 358                                                                                     |                                                                       |
| Tivanite         | $\text{TiV}^{3+}\text{O}_3(\text{OH})$                                                                                                                                               | A  | 1980-035  | Australia             | <i>American Mineralogist</i> <b>66</b> (1981), 866                                                                                     |                                                                       |
| Tlalocite        | $\text{Cu}_{10}\text{Zn}_6(\text{Te}^{4+}\text{O}_3)(\text{Te}^{6+}\text{O}_4)_2\text{Cl}(\text{OH})_{25}\cdot 27\text{H}_2\text{O}$                                                 | A  | 1974-047  | Mexico                | <i>Mineralogical Magazine</i> <b>40</b> (1975), 221                                                                                    |                                                                       |
| Tlapallite       | $(\text{Ca}, \text{Pb})_3\text{CaCu}_6\text{O}_2[\text{Te}^{4+}_3\text{Te}^{6+}\text{O}_{12}]_2(\text{Te}^{4+}\text{O}_3)_2(\text{SO}_4)_2(\text{H}_2\text{O})_3$                    | A  | 1977-044  | Mexico                | <i>Mineralogical Magazine</i> <b>42</b> (1978), 181                                                                                    | <i>Mineralogical Magazine</i> <b>83</b> (2019), 539                   |
| Tobelite         | $(\text{NH}_4)\text{Al}_2(\text{Si}_3\text{Al})\text{O}_{10}(\text{OH})_2$                                                                                                           | A  | 1981-021  | Japan                 | <i>Mineralogical Journal</i> <b>11</b> (1982), 138                                                                                     | <i>Mineralogical Magazine</i> <b>80</b> (2016), 143                   |
| Tobermorite      | $\text{Ca}_4\text{Si}_6\text{O}_{17}(\text{H}_2\text{O})_2\cdot (\text{Ca}\cdot 3\text{H}_2\text{O})$                                                                                | Rd | 2014 s.p. | United Kingdom        | <i>Mineralogical Magazine</i> <b>4</b> (1882), 117                                                                                     | <i>European Journal of Mineralogy</i> <b>13</b> (2001), 577           |
| Tochilinite      | $(\text{Fe}_{0.9}\text{S})_6[(\text{Mg}, \text{Fe})(\text{OH})_2]_5$                                                                                                                 | A  | 1971-002  | Russia                | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>100</b> (1971), 477                                                      | <i>Soviet Physics - Crystallography</i> <b>18</b> (1974), 606         |
| Tocornalite      | $(\text{Ag}, \text{Hg})\text{I} (?)$                                                                                                                                                 | Q  | 1867      | Chile                 | Mineralojia de Chile, Appendix II. Libreria Central de Servat, Santiago (1867), 41                                                     | <i>Smithsonian Contribution to Earth Sciences</i> <b>9</b> (1972), 79 |
| Todorokite       | $(\text{Na}, \text{Ca}, \text{K}, \text{Ba}, \text{Sr})_{1-x}(\text{Mn}, \text{Mg}, \text{Al})_6\text{O}_{12}\cdot 3-4\text{H}_2\text{O}$                                            | A  | 1962 s.p. | Japan                 | <i>Journal of the Faculty of Science, Hokkaido University, Series 4: Geology and Mineralogy</i> <b>2</b> (1934), 289                   | <i>American Mineralogist</i> <b>88</b> (2003), 142                    |
| Tokkoite         | $\text{K}_2\text{Ca}_4\text{Si}_7\text{O}_{18}(\text{OH})\text{F}$                                                                                                                   | A  | 1985-009  | Russia                | <i>Mineralogicheskii Zhurnal</i> <b>8</b> (1986), 85                                                                                   | <i>Mineralogical Magazine</i> <b>81</b> (2017), 251                   |
| Tokyoite         | $\text{Ba}_2\text{Mn}^{3+}(\text{VO}_4)_2\text{OH}$                                                                                                                                  | A  | 2003-036  | Japan                 | <i>Journal of Mineralogical and Petrological Sciences</i> <b>99</b> (2004), 363                                                        | <i>Canadian Mineralogist</i> <b>53</b> (2015), 981                    |
| Tolbachite       | $\text{CuCl}_2$                                                                                                                                                                      | A  | 1982-067  | Russia                | <i>Doklady Akademii Nauk SSSR</i> <b>270</b> (1983), 415                                                                               | <i>American Mineralogist</i> <b>78</b> (1993), 187                    |
| Toledoite        | $\text{TiFeSi}$                                                                                                                                                                      | A  | 2022-036  | Israel                | <i>Crystals</i> <b>14</b> (2024), 96                                                                                                   |                                                                       |
| Tolovkite        | $\text{IrSbS}$                                                                                                                                                                       | A  | 1980-055  | Russia                | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>110</b> (1981), 474                                                      | <i>American Mineralogist</i> <b>74</b> (1989), 1168                   |
| Tolstykhit       | $\text{Au}_3\text{S}_4\text{Te}_6$                                                                                                                                                   | A  | 2022-007  | Russia                | <i>Mineralogical Magazine</i> <b>87</b> (2023), 34                                                                                     |                                                                       |
| Tomamaeite       | $\text{Cu}_3\text{Pt}$                                                                                                                                                               | A  | 2019-129  | Japan                 | <i>Journal of Mineralogical and Petrological Sciences</i> <b>117</b> (2022), 220309                                                    |                                                                       |
| Tombstoneite     | $(\text{Ca}_{0.5}\text{Pb}_{0.5})\text{Pb}_3\text{Cu}^{2+}_6\text{Te}^{6+}_2\text{O}_6(\text{Te}^{4+}\text{O}_3)_6(\text{Se}^{4+}\text{O}_3)_2(\text{SO}_4)_2(\text{H}_2\text{O})_3$ | A  | 2021-053  | USA                   | <i>Mineralogical Magazine</i> <b>87</b> (2023), 10                                                                                     |                                                                       |
| Tomcampbellite   | $[\text{KCl}][\text{Fe}^{2+}_{14}(\text{OH})_6(\text{PO}_4)_6(\text{PO}_3\text{OH})_2]$                                                                                              | A  | 2024-072  | USA                   | CNMNC Newsletter 84 - <i>Mineralogical Magazine</i> <b>89</b> (2025), 298; <i>European Journal of Mineralogy</i> <b>37</b> (2025), 249 |                                                                       |
| Tomichite        | $\text{V}^{3+}_4\text{Ti}^{4+}_3\text{As}^{3+}_3\text{O}_{13}(\text{OH})$                                                                                                            | A  | 1978-074  | Australia             | <i>Mineralogical Magazine</i> <b>43</b> (1979), 469                                                                                    | <i>American Mineralogist</i> <b>72</b> (1987), 201                    |
| Tomiolloite      | $\text{Al}_{12}(\text{Te}^{4+}\text{O}_3)_5[(\text{SO}_3)_{0.5}(\text{SO}_4)_{0.5}](\text{OH})_{24}$                                                                                 | A  | 2021-019  | Mexico                | <i>American Mineralogist</i> <b>107</b> (2022), 2167                                                                                   |                                                                       |
| Tomsquarryite    | $\text{NaMgAl}_3(\text{PO}_4)_2(\text{OH})_6(\text{H}_2\text{O})_8$                                                                                                                  | A  | 2022-018  | Australia             | <i>European Journal of Mineralogy</i> <b>34</b> (2022), 375                                                                            |                                                                       |
| Tondiite         | $\text{Cu}_3\text{Mg}(\text{OH})_6\text{Cl}_2$                                                                                                                                       | A  | 2013-077  | Italy                 | <i>Mineralogical Magazine</i> <b>78</b> (2014), 583                                                                                    |                                                                       |
| Tongbaite        | $\text{Cr}_3\text{C}_2$                                                                                                                                                              | A  | 1982-003  | China                 | <i>Acta Mineralogica Sinica</i> <b>3</b> (1983), 241                                                                                   | <i>Acta Mineralogica Sinica</i> <b>24</b> (2004), 1                   |
| Tooeleite        | $\text{Fe}^{3+}_6(\text{AsO}_3)_4(\text{SO}_4)(\text{OH})_4(\text{H}_2\text{O})_4$                                                                                                   | A  | 1990-010  | USA                   | <i>Mineralogical Magazine</i> <b>56</b> (1992), 71                                                                                     | <i>American Mineralogist</i> <b>92</b> (2007), 193                    |
| Topaz            | $\text{Al}_2\text{SiO}_4\text{F}_2$                                                                                                                                                  | G  | ?         | unknown               | Mineralogia, eller Mineralriket. Lars Salvius, Stockholm (1747), 117                                                                   | <i>Scientific Reports</i> <b>11</b> (2021), 2666                      |
| Topsøeite        | $\text{FeF}_3(\text{H}_2\text{O})_3$                                                                                                                                                 | A  | 2016-113  | Iceland               | <i>European Journal of Mineralogy</i> <b>30</b> (2018), 841                                                                            |                                                                       |

|                   |                                                                                                                                                                                                                    |    |           |                     |                                                                                                               |                                                                                   |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----------|---------------------|---------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| Torbernite        | $\text{Cu}(\text{UO}_2)_2(\text{PO}_4)_2(\text{H}_2\text{O})_4 \cdot 8\text{H}_2\text{O}$                                                                                                                          | A  | 1980 s.p. | Czech Republic      | Frenmüthige Gedanken über herrn Inspector Werners Berbetterungen in der Mineralogie. Wappler, Wien (1790), 28 | <i>Canadian Mineralogist</i> <b>41</b> (2003), 489                                |
| Törnebohmite-(Ce) | $\text{Ce}_2\text{Al}(\text{SiO}_4)_2(\text{OH})$                                                                                                                                                                  | Rn | 1966 s.p. | Sweden              | <i>Sveriges Geologiska Undersökning</i> <b>14</b> (1921), 1                                                   | <i>American Mineralogist</i> <b>67</b> (1982), 1021                               |
| Törnebohmite-(La) | $\text{La}_2\text{Al}(\text{SiO}_4)_2(\text{OH})$                                                                                                                                                                  | Rn | 1966 s.p. | Russia              | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>91</b> (1962), 97                               |                                                                                   |
| Törnroosite       | $\text{Pd}_{11}\text{As}_2\text{Te}_2$                                                                                                                                                                             | A  | 2010-043  | Finland             | <i>Canadian Mineralogist</i> <b>49</b> (2011), 1643                                                           | <i>Canadian Mineralogist</i> <b>54</b> (2016), 511                                |
| Torrecillasite    | $\text{Na}(\text{As,Sb})^{3+}_4\text{O}_6\text{Cl}$                                                                                                                                                                | A  | 2013-112  | Chile               | <i>Mineralogical Magazine</i> <b>78</b> (2014), 747                                                           |                                                                                   |
| Torreyite         | $\text{Mg}_9\text{Zn}_4(\text{SO}_4)_2(\text{OH})_{22}(\text{H}_2\text{O})_8$                                                                                                                                      | G  | 1949      | USA                 | <i>American Mineralogist</i> <b>34</b> (1949), 589                                                            | <i>American Mineralogist</i> <b>67</b> (1982), 1029                               |
| Torryweiserite    | $\text{Rh}_5\text{Ni}_{10}\text{S}_{16}$                                                                                                                                                                           | A  | 2020-048  | Canada              | <i>Canadian Mineralogist</i> <b>59</b> (2021), 1833                                                           |                                                                                   |
| Tosudite          | $\text{Na}_{0.5}(\text{Al,Mg})_6(\text{Si,Al})_8\text{O}_{18}(\text{OH})_{12} \cdot 5\text{H}_2\text{O}$                                                                                                           | G  | 1963      | Ukraine             | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>92</b> (1963), 560                              | <i>Clays and Clay Minerals</i> <b>23</b> (1975), 337                              |
| Toturite          | $\text{Ca}_3\text{Sn}_2(\text{SiFe}^{3+}_2)\text{O}_{12}$                                                                                                                                                          | A  | 2009-033  | Russia              | <i>American Mineralogist</i> <b>95</b> (2010), 1305                                                           |                                                                                   |
| Tounkite          | $(\text{Na,Ca,K})_8(\text{Si}_6\text{Al}_6)\text{O}_{24}(\text{SO}_4)_2\text{Cl} \cdot 0.5\text{H}_2\text{O}$                                                                                                      | A  | 1990-009  | Russia              | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>121(2)</b> (1992), 92                         | <i>Minerals</i> <b>14</b> (2024), 382                                             |
| Touretite         | $\text{LiAl}_4\text{Be}_4(\text{B}_{11}\text{Be})\text{O}_{28}$                                                                                                                                                    | A  | 2023-003a | Madagascar          | <i>Canadian Journal of Mineralogy and Petrology</i> <b>63</b> (2025), 867                                     |                                                                                   |
| Townendite        | $\text{Na}_8\text{ZrSi}_6\text{O}_{18}$                                                                                                                                                                            | A  | 2009-066  | Denmark (Greenland) | <i>American Mineralogist</i> <b>95</b> (2010), 646                                                            | <i>Zapiski Rossiyskogo Mineralogicheskogo Obshchestva</i> <b>152(2)</b> (2023), 1 |
| Toyohaite         | $\text{Ag}^+(\text{Fe}^{2+}_{0.5}\text{Sn}^{4+}_{1.5})\text{S}_4$                                                                                                                                                  | Rd | 1989-007  | Japan               | <i>Mineralogical Journal</i> <b>15</b> (1991), 222                                                            |                                                                                   |
| Trabzonite        | $\text{Ca}_4[\text{Si}_3\text{O}_9(\text{OH})](\text{OH})$                                                                                                                                                         | A  | 1983-071a | Turkey              | <i>Schweizerische Mineralogische und Petrographische Mitteilungen</i> <b>66</b> (1986), 453                   | <i>Mineralogical Magazine</i> <b>76</b> (2012), 455                               |
| Tranquillityite   | $\text{Fe}^{2+}_8\text{Ti}_3\text{Zr}_2\text{Si}_3\text{O}_{24}$                                                                                                                                                   | A  | 1971-013  | The Moon            | <i>Proceedings of the 2nd Lunar Scientific Conference</i> <b>1</b> (1971), 39                                 | <i>Geology</i> <b>40</b> (2012), 83                                               |
| Transjordanite    | $\text{Ni}_2\text{P}$                                                                                                                                                                                              | A  | 2013-106  | Jordan / Israel     | <i>American Mineralogist</i> <b>105</b> (2020), 428                                                           |                                                                                   |
| Traskite          | $\text{Ba}_{21}\text{Ca}(\text{Fe}^{2+}, \text{Mn,Ti})_4(\text{Ti,Fe,Mg})_{12}(\text{Si}_{12}\text{O}_{36})(\text{Si}_2\text{O}_7)_6(\text{O,OH})_{30}\text{Cl}_6(\text{H}_2\text{O})_6 \cdot 8\text{H}_2\text{O}$ | A  | 1964-014  | USA                 | <i>American Mineralogist</i> <b>50</b> (1965), 314                                                            | <i>Doklady Akademii Nauk SSSR</i> <b>229</b> (1976), 1101                         |
| Trattnerite       | $\text{Fe}^{3+}_2(\text{Mg}_3\text{Si}_{12})\text{O}_{30}$                                                                                                                                                         | A  | 2002-002  | Austria             | <i>European Journal of Mineralogy</i> <b>16</b> (2004), 375                                                   |                                                                                   |
| Treasurite        | $\text{Ag}_7\text{Pb}_6\text{Bi}_{15}\text{S}_{30}$                                                                                                                                                                | A  | 1976-008  | USA                 | <i>Neues Jahrbuch für Mineralogie Abhandlungen</i> <b>131</b> (1977), 56                                      | <i>Bulletin of the Geological Society of Denmark</i> <b>26</b> (1977), 41         |
| Trébeurdenite     | $\text{Fe}^{2+}_2\text{Fe}^{3+}_4\text{O}_2(\text{OH})_{10}(\text{CO}_3) \cdot 3\text{H}_2\text{O}$                                                                                                                | A  | 2012 s.p. | France              | <i>Mineralogical Magazine</i> <b>76</b> (2012), 1289                                                          |                                                                                   |
| Trebiskyite       | $\text{Na}_3\text{Mg}_2[\text{TiV}_9\text{O}_{28}](\text{H}_2\text{O})_{20} \cdot 2\text{H}_2\text{O}$                                                                                                             | A  | 2019-131  | USA                 | <i>Canadian Journal of Mineralogy and Petrology</i> <b>62</b> (2024), 117                                     |                                                                                   |
| Trechmannite      | $\text{AgAsS}_2$                                                                                                                                                                                                   | G  | 1905      | Switzerland         | <i>Mineralogical Magazine</i> <b>14</b> (1905), 72                                                            | <i>Zeitschrift für Kristallographie</i> <b>129</b> (1969), 163                    |
| Tredouxite        | $\text{NiSb}_2\text{O}_6$                                                                                                                                                                                          | A  | 2017-061  | South Africa        | <i>European Journal of Mineralogy</i> <b>30</b> (2018), 393                                                   |                                                                                   |
| Trembathite       | $\text{Mg}_3\text{B}_7\text{O}_{13}\text{Cl}$                                                                                                                                                                      | A  | 1991-018  | Canada              | <i>Canadian Mineralogist</i> <b>30</b> (1992), 445                                                            | <i>Canadian Mineralogist</i> <b>36</b> (1998), 1195                               |
| Tremolite         | $\square\text{Ca}_2(\text{Mg}_{5.0-4.5}\text{Fe}^{2+}_{0.0-0.5})\text{Si}_8\text{O}_{22}(\text{OH})_2$                                                                                                             | Rd | 2012 s.p. | Switzerland         | <i>Magazin für die Naturkunde Helvetiens</i> <b>4</b> (1789), 255                                             | <i>American Mineralogist</i> <b>108</b> (2023), 903                               |

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|-----------------|---------------------------------------------------------------------------------------------------|----|-----------|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| Trevorite       | $\text{NiFe}^{3+}_2\text{O}_4$                                                                    | G  | 1921      | South Africa                     | <i>Journal of the Chemical, Metallurgical and Mineralogical Society of South Africa</i> <b>21</b> (1921), 126                          | <i>Mineralogical Magazine</i> <b>78</b> (2014), 145                                     |
| Triangulite     | $\text{Al}_3(\text{UO}_2)_4(\text{PO}_4)_4(\text{OH})_5 \cdot 5\text{H}_2\text{O}$                | A  | 1981-056  | Democratic Republic of the Congo | <i>Bulletin de Minéralogie</i> <b>105</b> (1982), 611                                                                                  |                                                                                         |
| Triazolite      | $\text{NaCu}_2(\text{N}_3\text{C}_2\text{H}_2)_2(\text{NH}_3)_2\text{Cl}_3(\text{H}_2\text{O})_4$ | A  | 2017-025  | Chile                            | <i>Mineralogical Magazine</i> <b>82</b> (2018), 1007                                                                                   | <i>Zeitschrift für Kristallographie</i> <b>231</b> (2016), 47                           |
| Tridymite       | $\text{SiO}_2$                                                                                    | G  | 1868      | Mexico                           | <i>Annalen der Physik und Chemie</i> <b>135</b> (1868), 437                                                                            | <i>Physics and Chemistry of Minerals</i> <b>28</b> (2001), 313                          |
| Trigodomeykite  | $\text{Cu}_3\text{As}$                                                                            | Rn | 1949      | Iran                             | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>78</b> (1949), 3                                                         | <i>Ore Geology Reviews</i> <b>80</b> (2017), 1245                                       |
| Trigonite       | $\text{Pb}_3\text{Mn}^{2+}(\text{AsO}_3)_2(\text{AsO}_2\text{OH})$                                | G  | 1920      | Sweden                           | <i>Geologiska Föreningens i Stockholm Förhandlingar</i> <b>42</b> (1920), 436                                                          | <i>Tschermaks Mineralogische und Petrographische Mitteilungen</i> <b>25</b> (1978), 95  |
| Trikalsilite    | $\text{K}_2\text{Na}(\text{AlSiO}_4)_3$                                                           | G  | 1957      | Democratic Republic of the Congo | <i>American Mineralogist</i> <b>42</b> (1957), 286                                                                                     | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1988), 559                           |
| Trilithionite   | $\text{KLi}_{1.5}\text{Al}_{1.5}(\text{Si}_3\text{Al})\text{O}_{10}\text{F}_2$                    | Rd | 1998 s.p. | Sweden                           | <i>Mineralogical Magazine</i> <b>53</b> (1989), 165                                                                                    | <i>European Journal of Mineralogy</i> <b>17</b> (2005), 475                             |
| Trimerite       | $\text{CaBe}_3\text{Mn}^{2+}_2(\text{SiO}_4)_3$                                                   | G  | 1890      | Sweden                           | <i>Zeitschrift für Kristallographie</i> <b>18</b> (1890), 361                                                                          | <i>Zeitschrift für Kristallographie</i> <b>145</b> (1977), 46                           |
| Trimounsite-(Y) | $\text{Y}_2\text{Ti}_2\text{SiO}_9$                                                               | A  | 1989-042  | France                           | <i>European Journal of Mineralogy</i> <b>2</b> (1990), 725                                                                             | <i>European Journal of Mineralogy</i> <b>13</b> (2001), 761                             |
| Trinepheline    | $\text{NaAlSiO}_4$                                                                                | A  | 2012-024  | Myanmar                          | <i>European Journal of Mineralogy</i> <b>26</b> (2014), 257                                                                            |                                                                                         |
| Triphylite      | $\text{LiFe}^{2+}(\text{PO}_4)$                                                                   | G  | 1834      | Germany                          | <i>Journal für Praktische Chemie</i> <b>3</b> (1834), 98                                                                               | <i>Mineralogy and Petrology</i> <b>107</b> (2013), 501                                  |
| Triplite        | $\text{Mn}^{2+}_2(\text{PO}_4)\text{F}$                                                           | G  | 1813      | France                           | <i>Handbuch der Mineralogie</i> , Vol. 1. Vandenhoek und Ruprecht, Göttingen (1813), 1079                                              | <i>Canadian Mineralogist</i> <b>52</b> (2014), 235                                      |
| Triploidite     | $\text{Mn}^{2+}_2(\text{PO}_4)(\text{OH})$                                                        | G  | 1878      | USA                              | <i>American Journal of Science and Arts</i> <b>116</b> (1878), 33                                                                      | <i>Zeitschrift für Kristallographie</i> <b>131</b> (1970), 1                            |
| Trippkeite      | $\text{Cu}^{2+}\text{As}^{3+}_2\text{O}_4$                                                        | G  | 1880      | Chile                            | <i>Verhandlungen des naturhistorischen Vereines der Preussischen Rheinlande und Westfalens</i> <b>37</b> (1880), 207                   | <i>Tschermaks Mineralogische und Petrographische Mitteilungen</i> <b>22</b> (1975), 211 |
| Tripuhyite      | $(\text{Fe}^{3+}_{0.5}\text{Sb}^{5+}_{0.5})\text{O}_2$                                            | Rd | 2002 s.p. | Brazil                           | <i>Mineralogical Magazine</i> <b>11</b> (1897), 302                                                                                    | <i>Mineralogical Magazine</i> <b>67</b> (2003), 31                                      |
| Tristramite     | $(\text{Ca}, \text{U}^{4+}, \text{Fe}^{3+})(\text{PO}_4, \text{SO}_4) \cdot 2\text{H}_2\text{O}$  | A  | 1982-037  | United Kingdom                   | <i>Mineralogical Magazine</i> <b>47</b> (1983), 393                                                                                    |                                                                                         |
| Tritomite-(Ce)  | $\text{Ce}_5(\text{SiO}_4, \text{BO}_4)_3(\text{OH}, \text{O})$                                   | Rn | 1966 s.p. | Norway                           | <i>Annalen der Physik und Chemie</i> <b>79</b> (1850), 299                                                                             |                                                                                         |
| Tritomite-(Y)   | $\text{Y}_5(\text{SiO}_4, \text{BO}_4)_3(\text{O}, \text{OH}, \text{F})$                          | Rn | 1966 s.p. | USA                              | <i>American Mineralogist</i> <b>47</b> (1962), 9                                                                                       |                                                                                         |
| Trögerite       | $(\text{H}_3\text{O})(\text{UO}_2)(\text{AsO}_4) \cdot 3\text{H}_2\text{O}$                       | G  | 1871      | Germany                          | <i>Neues Jahrbuch für Mineralogie, Geologie und Paläontologie</i> (1871), 869                                                          | <i>Acta Crystallographica</i> <b>C39</b> (1983), 159                                    |
| Trogtalite      | $\text{CoSe}_2$                                                                                   | G  | 1955      | Germany                          | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1955), 133                                                                          |                                                                                         |
| Troilite        | $\text{FeS}$                                                                                      | G  | 1863      | Italy (meteorite)                | <i>Sitzungsberichte der Kaiserlichen Akademie der Wissenschaften, Mathematisch-naturwissenschaftliche Klasse</i> <b>47</b> (1863), 283 | <i>American Mineralogist</i> <b>91</b> (2006), 917                                      |

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|------------------|---------------------------------------------------------------------------------------------------------------------------------------|----|-----------|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|
| Trolleite        | $\text{Al}_4(\text{PO}_4)_3(\text{OH})_3$                                                                                             | G  | 1868      | Sweden            | <i>Öfversigt af Kongliga Vetenskaps-Akademiens Förhandlingar</i> <b>25</b> (1868), 197                                                  | <i>American Mineralogist</i> <b>59</b> (1974), 974              |
| Trona            | $\text{Na}_3(\text{HCO}_3)(\text{CO}_3)(\text{H}_2\text{O})_2$                                                                        | G  | 1773      | Libya             | <i>Svenska Vetenskaps-Akademiens Handlingar</i> <b>34</b> (1773), 140                                                                   | <i>American Mineralogist</i> <b>99</b> (2014), 1973             |
| Truscottite      | $\text{Ca}_{14}\text{Si}_{24}\text{O}_{58}(\text{OH})_8 \cdot 2\text{H}_2\text{O}$                                                    | G  | 1914      | Indonesia         | <i>Verhandlungen Jaarboek van het Mijnwezen in Nederlandsch Oost-Indië</i> <b>41</b> (1914), 202                                        | <i>Mineralogical Magazine</i> <b>43</b> (1979), 333             |
| Trüstedtite      | $\text{Ni}^{2+}\text{Ni}^{3+}_2\text{Se}_4$                                                                                           | A  | 1967 s.p. | Finland           | <i>Comptes Rendus de la Société Géologique de Finlande</i> <b>36</b> (1964), 113                                                        |                                                                 |
| Tsangpoite       | $\text{Ca}_5(\text{PO}_4)_2(\text{SiO}_4)$                                                                                            | A  | 2014-110  | Argentina         | <i>Mineralogical Magazine</i> <b>83</b> (2019), 293                                                                                     |                                                                 |
| Tsaregorodtsevit | $\text{N}(\text{CH}_3)_4\text{Si}_4(\text{SiAl})\text{O}_{12}$                                                                        | A  | 1991-042  | Russia            | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>122(1)</b> (1993), 128                                                  | <i>Doklady Akademii Nauk SSSR</i> <b>332</b> (1993) 309         |
| Tschaunerite     | $(\text{Fe}^{2+})(\text{Fe}^{2+}\text{Ti}^{4+})\text{O}_4$                                                                            | A  | 2017-032a | India (meteorite) | <i>Meteoritics &amp; Planetary Science</i> <b>60</b> (2025), 375                                                                        |                                                                 |
| Tschermakite     | $\square\text{Ca}_2(\text{Mg}_3\text{Al}_2)(\text{Si}_6\text{Al}_2)\text{O}_{22}(\text{OH})_2$                                        | Rd | 2012 s.p. | unknown           | <i>American Mineralogist</i> <b>30</b> (1945), 27                                                                                       | <i>Canadian Mineralogist</i> <b>47</b> (2009), 917              |
| Tschermigite     | $(\text{NH}_4)\text{Al}(\text{SO}_4)_2(\text{H}_2\text{O})_{12}$                                                                      | G  | 1853      | Czech Republic    | Tafeln zur Bestimmung der Mineralien mittelst einfacher chemischer Versuche auf trockenem und nassem Wege. Lindauer, München (1853), 47 | <i>Crystallography Reports</i> <b>62</b> (2017), 843            |
| Tschernichite    | $\text{CaAl}_2\text{Si}_6\text{O}_{16} \cdot 8\text{H}_2\text{O}$                                                                     | A  | 1989-037  | USA               | <i>American Mineralogist</i> <b>78</b> (1993), 822                                                                                      | <i>Journal of Physical Chemistry B</i> <b>106</b> (2002), 10277 |
| Tschörtnerite    | $\text{Ca}_4(\text{K,Ca,Sr,Ba})_3\text{Cu}_3\text{Al}_{12}\text{Si}_{12}\text{O}_{48}(\text{OH})_8 \cdot 20\text{H}_2\text{O}$        | A  | 1995-051  | Germany           | <i>American Mineralogist</i> <b>83</b> (1998), 607                                                                                      |                                                                 |
| Tsepinite-Ca     | $(\text{Ca,K,Na})_{2-x}(\text{Ti,Nb})_2(\text{Si}_4\text{O}_{12})(\text{OH},\text{O})_2 \cdot 4\text{H}_2\text{O}$                    | A  | 2002-020  | Russia            | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (2003), 461                                                                           |                                                                 |
| Tsepinite-K      | $(\text{K,Ba,Na})_2(\text{Ti,Nb})_2(\text{Si}_4\text{O}_{12})(\text{OH},\text{O})_2 \cdot 3\text{H}_2\text{O}$                        | A  | 2002-005  | Russia            | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>132(1)</b> (2003), 38                                                   | <i>Doklady Chemistry</i> <b>386</b> (2002), 246                 |
| Tsepinite-Na     | $(\text{Na,H}_3\text{O,K,Sr,Ba},\square)_2(\text{Ti,Nb})_2(\text{Si}_4\text{O}_{12})(\text{OH},\text{O})_2 \cdot 3\text{H}_2\text{O}$ | Rn | 2000-046  | Russia            | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>130(3)</b> (2001), 43                                                   | <i>Doklady Chemistry</i> <b>371</b> (2000), 52                  |
| Tsepinite-Sr     | $(\text{Sr,Ba,K})(\text{Ti,Nb})_2(\text{Si}_4\text{O}_{12})(\text{OH},\text{O})_2 \cdot 3\text{H}_2\text{O}$                          | A  | 2004-008  | Russia            | <i>New Data on Minerals</i> <b>40</b> (2005), 11                                                                                        | <i>Doklady Akademii Nauk</i> <b>393</b> (2003), 784             |
| Tsikourasite     | $\text{Mo}_3\text{Ni}_2\text{P}_{1+x} \quad (x < 0.25)$                                                                               | A  | 2018-156  | Greece            | <i>Minerals</i> <b>9</b> (2019), 248                                                                                                    |                                                                 |
| Tsilaisite       | $\text{NaMn}^{2+}_3\text{Al}_6(\text{Si}_6\text{O}_{18})(\text{BO}_3)_3(\text{OH})_3(\text{OH})$                                      | A  | 2011-047  | Italy             | <i>American Mineralogist</i> <b>97</b> (2012), 989                                                                                      | <i>Mineralogical Magazine</i> <b>79</b> (2015), 89              |
| Tsnigriite       | $\text{Ag}_9\text{SbTe}_3\text{S}_3$                                                                                                  | A  | 1991-051  | Uzbekistan        | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>121(5)</b> (1992), 95                                                   |                                                                 |
| Tsugaruite       | $\text{Pb}_{28}\text{As}_{15}\text{S}_{50}\text{Cl}$                                                                                  | Rd | 2019 s.p. | Japan             | <i>Mineralogical Magazine</i> <b>62</b> (1998), 793                                                                                     | <i>Canadian Mineralogist</i> <b>59</b> (2021), 125              |
| Tsumcorite       | $\text{PbZn}_2(\text{AsO}_4)_2(\text{H}_2\text{O})_2$                                                                                 | A  | 1969-047  | Namibia           | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1971), 305                                                                           | <i>European Journal of Mineralogy</i> <b>10</b> (1998), 179     |
| Tsumebite        | $\text{Pb}_2\text{Cu}(\text{PO}_4)(\text{SO}_4)(\text{OH})$                                                                           | G  | 1912      | Namibia           | <i>Versammlung Deutschen Naturforscher und Ärzte</i> <b>84</b> (1912), 230                                                              | <i>Mineralogical Magazine</i> <b>36</b> (1967), 522             |
| Tsumgallite      | $\text{GaO}(\text{OH})$                                                                                                               | A  | 2002-011  | Namibia           | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (2003), 521                                                                           | <i>Journal of Applied Crystallography</i> <b>57</b> (2024), 232 |
| Tsumoite         | $\text{BiTe}$                                                                                                                         | A  | 1972-010a | Japan             | <i>American Mineralogist</i> <b>63</b> (1978), 1162                                                                                     | <i>Acta Crystallographica</i> <b>B35</b> (1979), 147            |
| Tsygankoite      | $\text{Mn}_8\text{Ti}_8\text{Hg}_2(\text{Sb}_{21}\text{Pb}_2\text{Ti})\text{S}_{48}$                                                  | A  | 2017-088  | Russia            | <i>Minerals</i> <b>8</b> (2018), 218                                                                                                    |                                                                 |

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|------------------|------------------------------------------------------------------------------------------------------------------------------------------------|----|-----------|-------------------------|---------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
| Tubulite         | $\text{Ag}_2\text{Pb}_{22}\text{Sb}_{20}\text{S}_{53}$                                                                                         | A  | 2011-109  | France / Italy          | <i>European Journal of Mineralogy</i> <b>25</b> (2013), 1017                          |                                                                                        |
| Tučekite         | $\text{Ni}_9\text{Sb}_2\text{S}_8$                                                                                                             | A  | 1975-022  | Australia /South Africa | <i>Mineralogical Magazine</i> <b>42</b> (1978), 278                                   |                                                                                        |
| Tugarinovite     | $\text{MoO}_2$                                                                                                                                 | A  | 1979-072  | Russia                  | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>109</b> (1980), 465     | <i>Crystal Research and Technology</i> <b>40</b> (2005), 95                            |
| Tugtupite        | $\text{Na}_4\text{BeAl}(\text{SiO}_4)_3\text{Cl}$                                                                                              | A  | 1967 s.p. | Denmark (Greenland)     | <i>Meddelelser om Grønland</i> <b>167</b> (1962), 1                                   | <i>American Mineralogist</i> <b>89</b> (2004), 492                                     |
| Tuhualite        | $\text{NaFe}^{2+}\text{Fe}^{3+}\text{Si}_6\text{O}_{15}$                                                                                       | G  | 1932      | New Zealand             | <i>New Zealand Journal of Science and Technology</i> <b>13</b> (1932), 198            | <i>Periodico di Mineralogia</i> <b>87</b> (2018), 257                                  |
| Tuite            | $\text{Ca}_3(\text{PO}_4)_2$                                                                                                                   | A  | 2001-070  | China (meteorite)       | <i>European Journal of Mineralogy</i> <b>15</b> (2003), 1001                          | <i>Physics and Chemistry of Minerals</i> <b>46</b> (2019), 157                         |
| Tulameenite      | $\text{Pt}_2\text{CuFe}$                                                                                                                       | A  | 1972-016  | Canada                  | <i>Canadian Mineralogist</i> <b>12</b> (1973), 21                                     | <i>Canadian Mineralogist</i> <b>28</b> (1990), 751                                     |
| Tuliokite        | $\text{Na}_6\text{BaTh}(\text{CO}_3)_6(\text{H}_2\text{O})_6$                                                                                  | A  | 1988-041  | Russia                  | <i>Mineralogicheskij Zhurnal</i> <b>12</b> (1990), 74                                 | <i>Doklady Akademii Nauk SSSR</i> <b>310</b> (1990), 99                                |
| Tululite         | $\text{Ca}_{14}(\text{Fe}^{3+}, \text{Al})(\text{Al}, \text{Zn}, \text{Fe}^{3+}, \text{Si}, \text{P}, \text{Mn}, \text{Mg})_{15}\text{O}_{36}$ | A  | 2014-065  | Jordan                  | <i>Mineralogy and Petrology</i> <b>110</b> (2016), 125                                |                                                                                        |
| Tumchaite        | $\text{Na}_2\text{ZrSi}_4\text{O}_{11}(\text{H}_2\text{O})_2$                                                                                  | A  | 1999-041  | Russia                  | <i>American Mineralogist</i> <b>85</b> (2000), 1516                                   |                                                                                        |
| Tundrite-(Ce)    | $\text{Na}_2\text{Ce}_2\text{TiO}_2(\text{SiO}_4)(\text{CO}_3)_2$                                                                              | Rn | 1987 s.p. | Russia                  | <i>Izdatelstvo Akademii Nauk SSSR</i> (1963), 209                                     | <i>Canadian Mineralogist</i> <b>46</b> (2008), 413                                     |
| Tundrite-(Nd)    | $\text{Na}_2\text{Nd}_2\text{TiO}_2(\text{SiO}_4)(\text{CO}_3)_2$                                                                              | Rn | 1987 s.p. | Denmark (Greenland)     | <i>Meddelelser om Grønland</i> <b>181</b> (1967), 1                                   |                                                                                        |
| Tunellite        | $\text{SrB}_6\text{O}_9(\text{OH})_2(\text{H}_2\text{O})_3$                                                                                    | A  | 1967 s.p. | USA                     | <i>U.S. Geological Survey, Professional Paper</i> <b>424-C</b> (1961), 294            | <i>Canadian Mineralogist</i> <b>32</b> (1994), 895                                     |
| Tungsten         | W                                                                                                                                              | A  | 2011-004  | Russia                  | <i>Mineralogical Magazine</i> <b>85</b> (2021), 76                                    |                                                                                        |
| Tungstenite      | $\text{WS}_2$                                                                                                                                  | G  | 1917      | USA                     | <i>Journal of the Washington Academy of Sciences</i> <b>7</b> (1917), 596             | <i>Journal of Solid State Chemistry</i> <b>70</b> (1987), 207                          |
| Tungstibite      | $\text{Sb}_2\text{WO}_6$                                                                                                                       | A  | 1993-059  | Germany                 | <i>Chemie der Erde</i> <b>55</b> (1995), 217                                          |                                                                                        |
| Tungstite        | $\text{WO}_3(\text{H}_2\text{O})$                                                                                                              | G  | 1868      | USA                     | A System of Mineralogy, 5th ed. Wiley, New York (1868), 186                           | <i>Canadian Mineralogist</i> <b>22</b> (1984), 681                                     |
| Tungusite        | $\text{Ca}_{14}\text{Fe}^{2+}_9\text{Si}_{24}\text{O}_{60}(\text{OH})_{22}$                                                                    | A  | 1966-029  | Russia                  | <i>Doklady Akademii Nauk SSSR</i> <b>171</b> (1966), 1167                             | <i>Mineralogical Magazine</i> <b>59</b> (1995), 535                                    |
| Tunisite         | $\text{NaCa}_2\text{Al}_4(\text{CO}_3)_4(\text{OH})_8\text{Cl}$                                                                                | A  | 1967-038  | Tunisia                 | <i>American Mineralogist</i> <b>54</b> (1969), 1                                      | <i>Tschermaks Mineralogische und Petrographische Mitteilungen</i> <b>28</b> (1981), 65 |
| Tuperssuatsiaite | $\text{Na}_2(\text{Fe}^{3+}, \text{Mn}^{2+})_3\text{Si}_8\text{O}_{20}(\text{OH})_2 \cdot 4\text{H}_2\text{O}$                                 | A  | 1984-002  | Denmark (Greenland)     | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1985), 501                         | <i>American Mineralogist</i> <b>87</b> (2002), 1458                                    |
| Turanite         | $\text{Cu}^{2+}_5(\text{VO}_4)_2(\text{OH})_4$                                                                                                 | G  | 1909      | Uzbekistan              | <i>Izvestiya Imperatorskoy Akademii Nauk</i> <b>3</b> (1909), 185                     | <i>Canadian Mineralogist</i> <b>42</b> (2004), 761                                     |
| Turkestanite     | $(\text{K}, \square)(\text{Ca}, \text{Na})_2\text{ThSi}_8\text{O}_{20} \cdot n\text{H}_2\text{O}$                                              | A  | 1996-036  | Kyrgyzstan / Tajikistan | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>126(6)</b> (1998), 45 | <i>Mineralogical Magazine</i> <b>87</b> (2023), 252                                    |
| Turneaureite     | $\text{Ca}_5(\text{AsO}_4)_3\text{Cl}$                                                                                                         | A  | 1983-063  | USA                     | <i>Canadian Mineralogist</i> <b>23</b> (1985), 251                                    | <i>American Mineralogist</i> <b>102</b> (2017), 1981                                   |
| Turquoise        | $\text{CuAl}_6(\text{PO}_4)_4(\text{OH})_8(\text{H}_2\text{O})_4$                                                                              | A  | 1967 s.p. | unknown                 | original paper?                                                                       | <i>Mineralogical Magazine</i> <b>64</b> (2000), 905                                    |
| Turtmannite      | $\text{Mn}_{25}\text{O}_5(\text{VO}_4)_3(\text{SiO}_4)_3(\text{OH})_{20}$                                                                      | A  | 2000-007  | Switzerland             | <i>American Mineralogist</i> <b>86</b> (2001), 1494                                   |                                                                                        |
| Tuscanite        | $\text{KCa}_6(\text{Si}, \text{Al})_{10}\text{O}_{22}(\text{SO}_4, \text{CO}_3)_2(\text{OH}) \cdot \text{H}_2\text{O}$                         | A  | 1976-031  | Italy                   | <i>American Mineralogist</i> <b>62</b> (1977), 1110                                   | <i>Acta Crystallographica</i> <b>B79</b> (2023), 296                                   |
| Tusionite        | $\text{Mn}^{2+}\text{Sn}(\text{BO}_3)_2$                                                                                                       | A  | 1982-090  | Tajikistan              | <i>Doklady Akademii Nauk SSSR</i> <b>272</b> (1983), 1449                             | <i>Canadian Mineralogist</i> <b>32</b> (1994), 903                                     |

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| Tuzlaite             | $\text{NaCaB}_5\text{O}_8(\text{OH})_2(\text{H}_2\text{O})_3$                                                           | A  | 1993-022  | Bosnia and Herzegovina | <i>American Mineralogist</i> <b>79</b> (1994), 562                                                                                    |                                                                                 |
| Tvalchrelidzeite     | $\text{Hg}_3\text{SbAsS}_3$                                                                                             | A  | 1974-052  | Georgia                | <i>Doklady Akademii Nauk SSSR</i> <b>225</b> (1975), 911                                                                              | <i>Canadian Mineralogist</i> <b>45</b> (2007), 1529                             |
| Tvedalite            | $\text{Ca}_4\text{Be}_3\text{Si}_6\text{O}_{17}(\text{OH})_4 \cdot 3\text{H}_2\text{O}$                                 | A  | 1990-027  | Norway                 | <i>American Mineralogist</i> <b>77</b> (1992), 438                                                                                    |                                                                                 |
| Tveitite-(Y)         | $(\text{Y}, \text{Na})_6(\text{Ca}, \text{Na}, \text{REE})_{12}(\text{Ca}, \text{Na})\text{F}_{42}$                     | Rn | 1987 s.p. | Norway                 | <i>Lithos</i> <b>10</b> (1977), 81                                                                                                    | <i>Crystallography Reports</i> <b>52</b> (2007), 71                             |
| Tvrđýite             | $\text{Fe}^{2+}\text{Fe}^{3+}_2\text{Al}_3(\text{PO}_4)_4(\text{OH})_5(\text{H}_2\text{O})_4 \cdot 2\text{H}_2\text{O}$ | A  | 2014-082  | Czech Republic         | <i>Mineralogical Magazine</i> <b>80</b> (2016), 1077                                                                                  |                                                                                 |
| Tweddillite          | $\text{CaSr}(\text{Mn}^{3+}_2\text{Al})(\text{Si}_2\text{O}_7)(\text{SiO}_4)\text{O}(\text{OH})$                        | Rn | 2001-014  | South Africa           | <i>Mineralogical Magazine</i> <b>66</b> (2002), 137                                                                                   |                                                                                 |
| Twinnite             | $\text{PbSbAsS}_4$                                                                                                      | A  | 1966-017  | Canada                 | <i>Canadian Mineralogist</i> <b>9</b> (1967), 191                                                                                     | <i>Zeitschrift für Kristallographie</i> <b>227</b> (2012), 468                  |
| Tychite              | $\text{Na}_6\text{Mg}_2(\text{CO}_3)_4(\text{SO}_4)$                                                                    | G  | 1905      | USA                    | <i>American Journal of Science</i> <b>20</b> (1905), 217                                                                              | <i>Acta Crystallographica</i> <b>E62</b> (2006), 207                            |
| Tyretskite           | $\text{Ca}_2\text{B}_5\text{O}_9(\text{OH}) \cdot \text{H}_2\text{O}$                                                   | A  | 1968 s.p. | Russia                 | <i>Rentgenografia Mineral'nogo Syr'ia, Vsesoyuznogo nauchno-issledovatel'skogo Institute, Akademii Nauk SSSR</i> <b>4</b> (1964), 10  | <i>American Mineralogist</i> <b>53</b> (1968), 2084                             |
| Tyrolite             | $\text{Ca}_2\text{Cu}_9(\text{AsO}_4)_4(\text{CO}_3)(\text{OH})_8(\text{H}_2\text{O})_8 \cdot 3\text{H}_2\text{O}$      | G  | 1845      | Austria                | Handbuch der Bestimmenden Mineralogie. Braumüller and Seidel, Wien (1845), 509                                                        | <i>American Mineralogist</i> <b>91</b> (2006), 1378                             |
| Tyrrellite           | $\text{Cu}(\text{Co}, \text{Ni})_2\text{Se}_4$                                                                          | G  | 1952      | Canada                 | <i>American Mineralogist</i> <b>37</b> (1952), 542                                                                                    | <i>Acta Crystallographica</i> <b>C63</b> (2007), i73                            |
| Tyuyamunite          | $\text{Ca}(\text{UO}_2)_2(\text{VO}_4)_2 \cdot 5\text{-}8\text{H}_2\text{O}$                                            | G  | 1912      | Kyrgyzstan             | <i>Bulletin de l'Académie Impériale des Sciences de St.-Petersbourg</i> <b>6</b> (1912), 945                                          | <i>Bulletin of the United States Geological Survey</i> <b>1009-B</b> (1954), 37 |
| Tzeferisite          | $\text{CaZn}_8(\text{SO}_4)_2(\text{OH})_{12}\text{Cl}_2(\text{H}_2\text{O})_9$                                         | A  | 2022-094  | Greece                 | CNMNC Newsletter 71 - <i>Mineralogical Magazine</i> <b>87</b> (2023), 332; <i>European Journal of Mineralogy</i> <b>35</b> (2023), 75 |                                                                                 |
| Uakitite             | VN                                                                                                                      | A  | 2018-003  | Russia (meteorite)     | <i>Minerals</i> <b>10</b> (2020), 150                                                                                                 |                                                                                 |
| Uchucchacuaite       | $\text{AgMnPb}_3\text{Sb}_5\text{S}_{12}$                                                                               | Rn | 1981-007  | Peru                   | <i>Bulletin de Minéralogie</i> <b>107</b> (1984), 597                                                                                 | <i>American Mineralogist</i> <b>96</b> (2011), 1186                             |
| Udinaite             | $\text{NaMg}_4(\text{VO}_4)_3$                                                                                          | A  | 2018-066  | Russia                 | <i>Minerals</i> <b>12</b> (2022), 850                                                                                                 |                                                                                 |
| Uduminelite          | $\text{Ca}_3\text{Al}_8(\text{PO}_4)_2\text{O}_{12} \cdot 2\text{H}_2\text{O}$                                          | Q  | 1950      | Japan                  | <i>Journal Geological Survey of Japan</i> <b>56</b> (1950), 243                                                                       | <i>American Mineralogist</i> <b>58</b> (1973), 806                              |
| Uedaite-(Ce)         | $\text{Mn}^{2+}\text{Ce}(\text{Al}_2\text{Fe}^{2+})(\text{Si}_2\text{O}_7)(\text{SiO}_4)\text{O}(\text{OH})$            | A  | 2006-022  | Japan                  | <i>European Journal of Mineralogy</i> <b>20</b> (2008), 261                                                                           |                                                                                 |
| Uklonskovite         | $\text{NaMg}(\text{SO}_4)\text{F}(\text{H}_2\text{O})_2$                                                                | Rd | 2016 s.p. | Uzbekistan             | <i>Doklady Akademii Nauk SSSR</i> <b>158</b> (1964), 1093                                                                             | <i>Mineralogical Magazine</i> <b>81</b> (2017), 1397                            |
| Ulexite              | $\text{NaCaB}_5\text{O}_6(\text{OH})_6(\text{H}_2\text{O})_5$                                                           | G  | 1850      | Chile                  | A System of Mineralogy, 3rd ed. Putnam, New York (1850), 695                                                                          | <i>American Mineralogist</i> <b>111</b> (2026), 100                             |
| Ulfanderssonite-(Ce) | $(\text{Ce}_{15}\text{Ca})\text{Mg}_2(\text{SiO}_4)_{10}(\text{SiO}_3\text{OH})(\text{OH}, \text{F})_5\text{Cl}_3$      | A  | 2016-107  | Sweden                 | <i>European Journal of Mineralogy</i> <b>29</b> (2017), 1015                                                                          |                                                                                 |
| Ullmannite           | $\text{NiSbS}$                                                                                                          | G  | 1843      | Germany                | Grundzüge eines Systems der Krystallogologie. Druck und Winterthur, Zürich (1843), 42                                                 | <i>American Mineralogist</i> <b>65</b> (1980), 154                              |
| Ulrichite            | $\text{CaCu}(\text{UO}_2)(\text{PO}_4)_2(\text{H}_2\text{O})_4$                                                         | A  | 1988-006  | Australia              | <i>Australian Mineralogist</i> <b>3</b> (1988), 125                                                                                   | <i>Mineralogical Magazine</i> <b>65</b> (2001), 717                             |
| Ulvöspinel           | $\text{TiFe}^{2+}_2\text{O}_4$                                                                                          | G  | 1953      | Sweden                 | <i>Economic Geology</i> <b>48</b> (1953), 677                                                                                         | <i>American Mineralogist</i> <b>94</b> (2009), 181                              |
| Umangite             | $\text{Cu}_3\text{Se}_2$                                                                                                | G  | 1891      | Argentina              | <i>Zeitschrift für Krystallographie und Mineralogie</i> <b>19</b> (1891), 265                                                         | <i>Canadian Journal of Chemistry</i> <b>54</b> (1976), 841                      |

|                |                                                       |    |           |                                  |                                                                                                                 |                                                                                     |
|----------------|-------------------------------------------------------|----|-----------|----------------------------------|-----------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Umbite         | $K_2ZrSi_3O_9(H_2O)$                                  | A  | 1982-006  | Russia                           | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>112</b> (1983), 461                               | <i>Izvestiya Akademii Nauk SSSR Neorganicheskie Materialy</i> <b>29</b> (1993), 971 |
| Umbozerite     | $Na_3Sr_4ThSi_8(O,OH)_{24}$                           | A  | 1973-039  | Russia                           | <i>Doklady Akademii Nauk SSSR</i> <b>216</b> (1974), 169                                                        |                                                                                     |
| Umbrianite     | $K_7Na_2Ca_2[Al_3Si_{10}O_{29}]F_2Cl_2$               | A  | 2011-074  | Italy                            | <i>European Journal of Mineralogy</i> <b>25</b> (2013), 655                                                     |                                                                                     |
| Umohoite       | $(UO_2)(MoO_4)(H_2O) \cdot H_2O$                      | G  | 1953      | USA                              | <i>United States Atomic Energy Commission, Annual Report</i> (1953), 45                                         | <i>Canadian Mineralogist</i> <b>38</b> (2000), 717                                  |
| Ungavaite      | $Pd_4Sb_3$                                            | A  | 2004-020  | Canada                           | <i>Canadian Mineralogist</i> <b>43</b> (2005), 1735                                                             |                                                                                     |
| Ungemachite    | $K_3Na_8Fe^{3+}(SO_4)_6(NO_3)_2(H_2O)_6$              | G  | 1938      | Chile                            | <i>American Mineralogist</i> <b>23</b> (1938), 314                                                              | <i>American Mineralogist</i> <b>71</b> (1986), 826                                  |
| Upalite        | $Al(UO_2)_3(PO_4)_2O(OH)(H_2O)_5 \cdot 2H_2O$         | A  | 1978-045  | Democratic Republic of the Congo | <i>Bulletin de Minéralogie</i> <b>102</b> (1979), 333                                                           | <i>Bulletin de Minéralogie</i> <b>106</b> (1983), 383                               |
| Uralborite     | $CaB_2O_2(OH)_4$                                      | A  | 1967 s.p. | Russia                           | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>90</b> (1961), 673                                | <i>Doklady Akademii Nauk SSSR</i> <b>234</b> (1977), 822                            |
| Uralolite      | $Ca_2Be_4(PO_4)_3(OH)_3(H_2O)_4 \cdot H_2O$           | G  | 1964      | Russia                           | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>93</b> (1964), 156                                | <i>Mineralogy and Petrology</i> <b>117</b> (2023), 181                              |
| Uramarsite     | $(NH_4)(UO_2)(AsO_4) \cdot 3H_2O$                     | A  | 2005-043  | Kazakhstan                       | <i>Transactions (Doklady) of the Russian Academy of Sciences, Earth Science Section</i> <b>415A</b> (2007), 965 | <i>Crystallography Reports</i> <b>53</b> (2008), 771                                |
| Uramphite      | $(NH_4)(UO_2)(PO_4) \cdot 3H_2O$                      | G  | 1957      | Kyrgyzstan                       | <i>Voprosy Geologii Urana</i> . Atomic Press, Moscow (1957), 67                                                 | <i>American Mineralogist</i> <b>110</b> (2025), 319                                 |
| Urancalcarite  | $Ca(UO_2)_3(CO_3)(OH)_6 \cdot 3H_2O$                  | A  | 1983-052  | Democratic Republic of the Congo | <i>Bulletin de Minéralogie</i> <b>107</b> (1984), 21                                                            | <i>Acta Mineralogica Sinica</i> <b>12</b> (1992), 78                                |
| Uraninite      | $UO_2$                                                | G  | 1845      | Czech Republic                   | <i>Handbuch der Bestimmenden Mineralogie</i> . Braumüller and Seidel, Wien (1845), 546                          | <i>Journal of Nuclear Materials</i> <b>190</b> (1992), 128                          |
| Uranocircite   | $Ba(UO_2)_2(PO_4)_2 \cdot 10H_2O$                     | Rn | 2022 s.p. | Germany                          | <i>Jahrbuch für das Berg- und Hüttenwesen im Königreiche Sachsen</i> (1877), 48                                 | <i>International Geology Review</i> <b>23</b> (1981), 91                            |
| Uranoclite     | $(UO_2)_2(OH)_2Cl_2(H_2O)_4$                          | A  | 2020-074  | USA                              | <i>Mineralogical Magazine</i> <b>85</b> (2021), 438                                                             |                                                                                     |
| Uranophane     | $Ca(UO_2)_2(SiO_3OH)_2(H_2O)_4 \cdot H_2O$            | Rn | 2022 s.p. | Poland                           | <i>Zeitschrift der Deutschen Geologischen Gesellschaft</i> <b>5</b> (1853), 373                                 | <i>Doklady Chemistry</i> <b>378</b> (2001), 122                                     |
| Uranopilite    | $(UO_2)_6(SO_4)O_2(OH)_6(H_2O)_6 \cdot 8H_2O$         | G  | 1882      | Czech Republic / Germany         | <i>Neues Jahrbuch für Mineralogie, Geologie und Paläontologie</i> <b>2</b> (1882), 249                          | <i>RSC Advances</i> <b>10</b> (2020), 31947                                         |
| Uranopolycrase | $UTi_2O_6$                                            | Rd | 2022 s.p. | Italy                            | <i>European Journal of Mineralogy</i> <b>5</b> (1993), 1161                                                     |                                                                                     |
| Uranosilite    | $(UO_2)Si_7O_{15}$                                    | A  | 1981-066  | Germany                          | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1983), 259                                                   |                                                                                     |
| Uranospathite  | $(Al, \square)(UO_2)_2F(PO_4)_2(H_2O)_6 \cdot 14H_2O$ | G  | 1915      | United Kingdom                   | <i>Mineralogical Magazine</i> <b>17</b> (1915), 221                                                             | <i>Canadian Mineralogist</i> <b>43</b> (2005), 989                                  |
| Uranosphaerite | $Bi(UO_2)_2O_2(OH)$                                   | G  | 1873      | Germany                          | <i>Jahrbuch für das Berg- und Hüttenwesen im Königreiche Sachsen, Abhandlungen</i> (1873), 119                  | <i>Journal of Physics and Chemistry of Solids</i> <b>141</b> (2020), 109400         |

|                  |                                                                                                         |    |           |                                  |                                                                                                                                        |                                                                                                                       |
|------------------|---------------------------------------------------------------------------------------------------------|----|-----------|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| Uranospinite     | $\text{Ca}(\text{UO}_2)_2(\text{AsO}_4)_2 \cdot 10\text{H}_2\text{O}$                                   | G  | 1873      | Germany                          | <i>Jahrbuch für das Berg- und Hüttenwesen im Königreiche Sachsen, Abhandlungen</i> (1873), 119                                         | <i>U.S. Geological Survey Bulletin</i> <b>1064</b> (1958), 183                                                        |
| Uranotungstite   | $\text{Fe}(\text{UO}_2)_2(\text{WO}_4)(\text{OH})_4 \cdot 12\text{H}_2\text{O}$                         | A  | 1984-005  | Germany                          | <i>Tschermaks Mineralogische und Petrographische Mitteilungen</i> <b>34</b> (1985), 25                                                 | <i>American Mineralogist</i> <b>107</b> (2022), 1709                                                                  |
| Urea             | $\text{CO}(\text{NH}_2)_2$                                                                              | A  | 1972-031  | Australia                        | <i>Mineralogical Magazine</i> <b>39</b> (1973), 346                                                                                    | <i>Acta Crystallographica</i> <b>A60</b> (2004), 371                                                                  |
| Uricite          | $\text{C}_5\text{H}_4\text{N}_4\text{O}_3$                                                              | A  | 1973-055  | Australia                        | <i>Mineralogical Magazine</i> <b>39</b> (1974), 889                                                                                    | <i>Minerals</i> <b>9</b> (2019), 373                                                                                  |
| Uroxite          | $[(\text{UO}_2)_2(\text{C}_2\text{O}_4)(\text{OH})_2(\text{H}_2\text{O})_2] \cdot \text{H}_2\text{O}$   | A  | 2018-100  | USA                              | <i>Mineralogical Magazine</i> <b>84</b> (2020), 131                                                                                    |                                                                                                                       |
| Urusovite        | $\text{CuAlO}(\text{AsO}_4)$                                                                            | A  | 1998-067  | Russia                           | <i>European Journal of Mineralogy</i> <b>12</b> (2000), 1041                                                                           | <i>Crystallography Reports</i> <b>45</b> (2000), 723                                                                  |
| Urvantsevite     | $\text{Pd}(\text{Bi,Pb})_2$                                                                             | A  | 1976-025  | Russia                           | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>105</b> (1976), 704                                                      | <i>Soviet Journal of Experimental and Theoretical Physics</i> <b>5</b> (1957), 1064                                   |
| Ushkovite        | $\text{MgFe}^{3+}_2(\text{PO}_4)_2(\text{OH})_2(\text{H}_2\text{O})_6 \cdot 2\text{H}_2\text{O}$        | A  | 1982-014  | Russia                           | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>112</b> (1983), 42                                                       | <i>Canadian Mineralogist</i> <b>40</b> (2002), 929                                                                    |
| Usovite          | $\text{Ba}_2\text{CaMgAl}_2\text{F}_{14}$                                                               | A  | 1966-038  | Russia                           | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>96</b> (1967), 63                                                        | <i>Dopovidi Akademii Nauk Ukrainskoi RSR Seriya B: Geologichni Khimichni Ta Biologichni Nauki</i> <b>3</b> (1980), 47 |
| Ussingite        | $\text{Na}_2\text{AlSi}_3\text{O}_8(\text{OH})$                                                         | G  | 1915      | Denmark (Greenland)              | <i>Zeitschrift für Kristallographie und Mineralogie</i> <b>54</b> (1915), 120                                                          | <i>American Mineralogist</i> <b>109</b> (2024), 858                                                                   |
| Ustarasite       | $\text{Pb}(\text{Bi,Sb})_6\text{S}_{10}$                                                                | Q  | 1955      | Russia                           | <i>Trudy Mineralogicheskogo Muzeya Akademii Nauk SSSR</i> <b>7</b> (1955), 112                                                         |                                                                                                                       |
| Usturite         | $\text{Ca}_3(\text{SbZr})(\text{FeO}_4)_3$                                                              | Rn | 2009-053  | Russia                           | <i>American Mineralogist</i> <b>95</b> (2010), 959                                                                                     |                                                                                                                       |
| Utahite          | $\text{MgCu}^{2+}_4\text{Zn}_2\text{Te}^{6+}_3\text{O}_{14}(\text{OH})_4(\text{H}_2\text{O})_6$         | Rd | 1995-039  | USA                              | <i>Mineralogical Record</i> <b>28</b> (1997), 175                                                                                      | <i>Mineralogy and Petrology</i> <b>115</b> (2021), 477                                                                |
| Uvanite          | $(\text{UO}_2)_2\text{V}^{5+}_6\text{O}_{17} \cdot 15\text{H}_2\text{O} (?)$                            | Q  | 1914      | USA                              | <i>Journal of the Washington Academy of Sciences</i> <b>4</b> (1914), 576                                                              | <i>Anorganische Chemie</i> <b>7</b> (1965), 347                                                                       |
| Uvarovite        | $\text{Ca}_3\text{Cr}_2(\text{SiO}_4)_3$                                                                | A  | 1967 s.p. | Russia                           | <i>Annalen der Physik und Chemie</i> <b>24</b> (1832), 388                                                                             | <i>Minerals</i> <b>9</b> (2019), 395                                                                                  |
| Uvite            | $\text{CaMg}_3(\text{Al}_5\text{Mg})(\text{Si}_6\text{O}_{18})(\text{BO}_3)_3(\text{OH})_3(\text{OH})$  | A  | 2019-113  | Italy                            | <i>Mineralogical Magazine</i> <b>86</b> (2022), 767                                                                                    | <i>Physics and Chemistry of Minerals</i> <b>49</b> (2022), 40                                                         |
| Uytenbogaardtite | $\text{Ag}_3\text{AuS}_2$                                                                               | A  | 1977-018  | Indonesia / Russia / USA         | <i>Canadian Mineralogist</i> <b>16</b> (1978), 651                                                                                     | <i>Mineralogical Magazine</i> <b>80</b> (2016), 1031                                                                  |
| Uzonite          | $\text{As}_4\text{S}_5$                                                                                 | A  | 1984-027  | Russia                           | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>114</b> (1985), 369                                                      | <i>Canadian Mineralogist</i> <b>41</b> (2003), 1463                                                                   |
| Vadlazarenkovite | $\text{Pd}_8\text{Bi}_{1.5}\text{Te}_{1.25}\text{As}_{0.25}$                                            | A  | 2023-040  | Russia                           | <i>Mineralogical Magazine</i> <b>89</b> (2025), 92                                                                                     |                                                                                                                       |
| Vaesite          | $\text{NiS}_2$                                                                                          | G  | 1945      | Democratic Republic of the Congo | <i>American Mineralogist</i> <b>30</b> (1945), 483                                                                                     | <i>Acta Crystallographica</i> <b>B47</b> (1991), 650                                                                  |
| Vajdakite        | $(\text{Mo}^{6+}\text{O}_2)_2\text{As}^{3+}_2\text{O}_5(\text{H}_2\text{O})_2 \cdot \text{H}_2\text{O}$ | A  | 1998-031  | Czech Republic                   | <i>American Mineralogist</i> <b>87</b> (2002), 983                                                                                     |                                                                                                                       |
| Vakhrushevaite   | $\text{Mg}_5\text{Cr}(\text{AlSi}_3\text{O}_{10})(\text{OH})_8$                                         | A  | 2025-024  | Russia                           | CNMNC Newsletter 86 - <i>Mineralogical Magazine</i> <b>89</b> (2025), 544; <i>European Journal of Mineralogy</i> <b>37</b> (2025), 549 |                                                                                                                       |
| Valentinite      | $\text{Sb}_2\text{O}_3$                                                                                 | A  | 1980 s.p. | France                           | Handbuch der Bestimmenden Mineralogie. Braumüller and Seidel, Wien (1845), 499                                                         | <i>Crystals</i> <b>13</b> (2023), 752                                                                                 |

|                              |                                                                                                                                                             |   |           |                                  |                                                                                                                                        |                                                                                     |
|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|---|-----------|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Valleriite                   | $2[(\text{Fe,Cu})\text{S}] \cdot 1.53[(\text{Mg,Al})(\text{OH})_2]$                                                                                         | G | 1870      | Sweden                           | <i>Öfversigt af Kongliga Vetenskaps-Akademiens Förhandlingar</i> (1870), 19                                                            | <i>Zeitschrift für Kristallographie</i> <b>127</b> (1968), 73                       |
| Valleyite                    | $\text{Ca}_4\text{Fe}_6\text{O}_{13}$                                                                                                                       | A | 2017-026  | USA                              | <i>American Mineralogist</i> <b>104</b> (2019), 1238                                                                                   |                                                                                     |
| Vallouiseite                 | $\text{Ag}_3\text{Ti}_{21.5}\text{PbSb}_{63}\text{As}_{41.5}\text{S}_{170}$                                                                                 | A | 2023-051  | France                           | CNMNC Newsletter 75 - <i>Mineralogical Magazine</i> <b>87</b> (2023), 955; <i>European Journal of Mineralogy</i> <b>35</b> (2023), 891 |                                                                                     |
| Vanackerite                  | $\text{Pb}_4\text{Cd}(\text{AsO}_4)_3\text{Cl}$                                                                                                             | A | 2011-114  | Namibia                          | <i>Journal of Mineralogy and Geochemistry</i> <b>193</b> (2016), 79                                                                    |                                                                                     |
| Vanadinite                   | $\text{Pb}_5(\text{VO}_4)_3\text{Cl}$                                                                                                                       | G | 1838      | Mexico                           | Grundzüge der Mineralogie. Schrag, Nürnberg (1838), 283                                                                                | <i>Zapiski Rossiyskogo Mineralogicheskogo Obshchestva</i> <b>153(5)</b> (2024), 127 |
| Vanadiocarpholite            | $\text{Mn}^{2+}\text{V}^{3+}\text{AlSi}_2\text{O}_6(\text{OH})_4$                                                                                           | A | 2003-055  | Italy                            | <i>European Journal of Mineralogy</i> <b>17</b> (2005), 501                                                                            |                                                                                     |
| Vanadio-oxy-chromium-dravite | $\text{NaV}_3(\text{Cr}_4\text{Mg}_2)(\text{Si}_6\text{O}_{18})(\text{BO}_3)_3(\text{OH})_3\text{O}$                                                        | A | 2012-034  | Russia                           | <i>American Mineralogist</i> <b>99</b> (2014), 1155                                                                                    |                                                                                     |
| Vanadio-oxy-dravite          | $\text{NaV}_3(\text{Al}_4\text{Mg}_2)(\text{Si}_6\text{O}_{18})(\text{BO}_3)_3(\text{OH})_3\text{O}$                                                        | A | 2012-074  | Russia                           | <i>American Mineralogist</i> <b>99</b> (2014), 218                                                                                     | <i>Mineralogical Magazine</i> <b>84</b> (2020), 797                                 |
| Vanadio-pargasite            | $\text{NaCa}_2(\text{Mg}_4\text{V})(\text{Si}_6\text{Al}_2)\text{O}_{22}(\text{OH})_2$                                                                      | A | 2017-019  | Russia                           | <i>European Journal of Mineralogy</i> <b>30</b> (2018), 981                                                                            | <i>Zapiski Rossiyskogo Mineralogicheskogo Obshchestva</i> <b>146(6)</b> (2017), 62  |
| Vanadium                     | V                                                                                                                                                           | A | 2012-021a | Mexico                           | <i>Mineralogical Magazine</i> <b>80</b> (2016), 371                                                                                    |                                                                                     |
| Vanadoakasakaite-(Ce)        | $\text{CaCe}(\text{V}^{3+}\text{AlMn}^{2+})(\text{Si}_2\text{O}_7)(\text{SiO}_4)\text{O}(\text{OH})$                                                        | A | 2024-044  | Japan                            | <i>Journal of Mineralogical and Petrological Sciences</i> <b>121</b> (2026), 250927                                                    |                                                                                     |
| Vanadoakasakaite-(La)        | $\text{CaLa}(\text{V}^{3+}\text{AlMn}^{2+})(\text{Si}_2\text{O}_7)(\text{SiO}_4)\text{O}(\text{OH})$                                                        | A | 2025-003  | Japan                            | <i>Journal of Mineralogical and Petrological Sciences</i> <b>121</b> (2026), 250927                                                    |                                                                                     |
| Vanadoallanite-(La)          | $\text{CaLa}(\text{V}^{3+}\text{AlFe}^{2+})(\text{Si}_2\text{O}_7)(\text{SiO}_4)\text{O}(\text{OH})$                                                        | A | 2012-095  | Japan                            | <i>Mineralogical Magazine</i> <b>77</b> (2013), 2739                                                                                   |                                                                                     |
| Vanadoandrosite-(Ce)         | $\text{MnCe}(\text{V}^{3+}\text{AlMn}^{2+})(\text{Si}_2\text{O}_7)(\text{SiO}_4)\text{O}(\text{OH})$                                                        | A | 2004-015  | France                           | <i>European Journal of Mineralogy</i> <b>18</b> (2006), 569                                                                            |                                                                                     |
| Vanadomalayaite              | $\text{CaVO}(\text{SiO}_4)$                                                                                                                                 | A | 1993-032  | Italy                            | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1994), 489                                                                          |                                                                                     |
| Vanalite                     | $\text{NaAl}_8\text{V}_{10}\text{O}_{38} \cdot 30\text{H}_2\text{O}$                                                                                        | A | 1967 s.p. | Kazakhstan                       | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>91</b> (1962), 307                                                       | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>116</b> (1987), 100   |
| Vanarsite                    | $\text{NaCa}_{12}(\text{H}_2\text{O})_{64}(\text{As}^{3+}\text{V}^{5+}_{8.5}\text{V}^{4+}_{3.5}\text{As}^{5+}_6\text{O}_{51})_2 \cdot 14\text{H}_2\text{O}$ | A | 2014-031  | USA                              | <i>Canadian Mineralogist</i> <b>54</b> (2016), 145                                                                                     |                                                                                     |
| Vandenbrandeite              | $\text{Cu}(\text{UO}_2)(\text{OH})_4$                                                                                                                       | G | 1932      | Democratic Republic of the Congo | <i>Annales du Musée du Congo Belge</i> <b>1</b> (1932), 24                                                                             | <i>American Mineralogist</i> <b>108</b> (2023), 695                                 |
| Vandendriesscheite           | $\text{Pb}_{1.6}(\text{UO}_2)_{10}\text{O}_6(\text{OH})_{11}(\text{H}_2\text{O})_5 \cdot 6\text{H}_2\text{O}$                                               | G | 1947      | Democratic Republic of the Congo | <i>Annales de la Société Géologique de Belgique</i> <b>70</b> (1947), B212                                                             | <i>American Mineralogist</i> <b>82</b> (1997), 1176                                 |
| Vanderheydenite              | $\text{Zn}_6(\text{PO}_4)_2(\text{SO}_4)(\text{OH})_4(\text{H}_2\text{O})_3 \cdot 4\text{H}_2\text{O}$                                                      | A | 2014-076  | Australia                        | <i>European Journal of Mineralogy</i> <b>30</b> (2018), 835                                                                            |                                                                                     |
| Vandermeerscheite            | $\text{K}_2[(\text{UO}_2)_2\text{V}_2\text{O}_8](\text{H}_2\text{O})_2$                                                                                     | A | 2017-104  | Germany                          | <i>Journal of Geosciences</i> <b>64</b> (2019), 219                                                                                    |                                                                                     |
| Vaniniite                    | $\text{Ca}_2\text{Mn}^{2+}_3\text{Mn}^{3+}_2\text{O}_2(\text{AsO}_4)_4 \cdot 2\text{H}_2\text{O}$                                                           | A | 2017-116  | Switzerland                      | CNMNC Newsletter 43 - <i>Mineralogical Magazine</i> <b>82</b> (2018), 779; <i>European Journal of Mineralogy</i> <b>30</b> (2018), 647 |                                                                                     |
| Vanmeersscheite              | $\text{U}(\text{UO}_2)_3(\text{PO}_4)_2(\text{OH})_6 \cdot 4\text{H}_2\text{O}$                                                                             | A | 1981-009  | Democratic Republic of the Congo | <i>Bulletin de Minéralogie</i> <b>105</b> (1982), 125                                                                                  |                                                                                     |

|                     |                                                                                              |    |           |                                  |                                                                                                                                         |                                                                           |
|---------------------|----------------------------------------------------------------------------------------------|----|-----------|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|
| Vanoxite            | $V_6O_{13} \cdot 8H_2O$ (?)                                                                  | G  | 1924      | USA                              | U.S. Geological Survey Bulletin <b>750-D</b> (1924), 63                                                                                 |                                                                           |
| Vanpeltite          | $(Mo_2O_5)(S^{4+}O_3)(H_2O)_2 \cdot 2H_2O$                                                   | A  | 2023-078  | USA                              | CNMNC Newsletter 76 - <i>Mineralogical Magazine</i> <b>88</b> (2024), 105; <i>European Journal of Mineralogy</i> <b>35</b> (2023), 1073 |                                                                           |
| Vantasselite        | $Al_4(PO_4)_3(OH)_3 \cdot 9H_2O$                                                             | A  | 1986-016  | Belgium                          | <i>Bulletin de Minéralogie</i> <b>110</b> (1987), 647                                                                                   |                                                                           |
| Vanthoffite         | $Na_6Mg(SO_4)_4$                                                                             | G  | 1902      | Germany                          | <i>Akademie der Wissenschaften, Berichte</i> <b>21</b> (1902), 404                                                                      | <i>Acta Crystallographica</i> <b>E76</b> (2020), 785                      |
| Vanuralite          | $Al(UO_2)_2(VO_4)_2(OH)(H_2O)_4 \cdot 4.5H_2O$                                               | A  | 1967 s.p. | Gabon                            | <i>Comptes Rendus Hebdomadaires des Séances de l'Académie des Sciences</i> <b>256</b> (1963), 5374                                      | <i>Zeitschrift für Kristallographie</i> <b>232</b> (2017), 807            |
| Vapnikite           | $Ca_2CaUO_6$                                                                                 | A  | 2013-082  | Palestine                        | <i>Mineralogical Magazine</i> <b>78</b> (2014), 571                                                                                     |                                                                           |
| Varennesite         | $Na_8Mn_2Si_{10}O_{25}(OH,Cl)_2(H_2O)_{10} \cdot 2H_2O$                                      | A  | 1994-017  | Canada                           | <i>Canadian Mineralogist</i> <b>33</b> (1995), 1073                                                                                     |                                                                           |
| Vargite             | $MnCu_2Mn_2(AsO_4)_2(OH)_4(H_2O)_4$                                                          | A  | 2020-051  | Sweden                           | <b>GFF 146</b> (2024), 40                                                                                                               |                                                                           |
| Variscite           | $Al(PO_4)(H_2O)_2$                                                                           | A  | 1967 s.p. | Germany                          | <i>Journal für Praktische Chemie</i> <b>10</b> (1837), 506                                                                              | <i>American Mineralogist</i> <b>107</b> (2022), 1385                      |
| Varlamoffite        | $(Sn,Fe)(O,OH)_2$                                                                            | Q  | 1947      | Democratic Republic of the Congo | Les minéraux de Belgique et du Congo Belge. Dunod, Paris (1947), 182                                                                    | <i>Mineralogicheskij Zhurnal</i> <b>15</b> (1993), 94                     |
| Varulite            | $Na_2Mn(MnFe^{3+})(PO_4)_3$                                                                  | Rd | 2019 s.p. | Sweden                           | <i>Geologiska Föreningens i Stockholm Förhandlingar</i> <b>59</b> (1937), 77                                                            |                                                                           |
| Vashegyite          | $Al_5(PO_4)_4(OH)_3(H_2O)_7 \cdot nH_2O$ ( $n \sim 9$ )                                      | G  | 1909      | Slovakia                         | <i>Mathematikai és Természettudományi Értesítő</i> <b>27</b> (1909), 64                                                                 | <i>Canadian Journal of Mineralogy and Petrology</i> <b>64</b> (2026), 235 |
| Vasilite            | $(Pd,Cu)_{16}(S,Te)_7$                                                                       | A  | 1989-044  | Bulgaria                         | <i>Canadian Mineralogist</i> <b>28</b> (1990), 687                                                                                      | <i>Canadian Mineralogist</i> <b>38</b> (2000), 1251                       |
| Vasilseverginite    | $Cu_9O_4(AsO_4)_2(SO_4)_2$                                                                   | A  | 2015-083  | Russia                           | <i>American Mineralogist</i> <b>106</b> (2021), 633                                                                                     |                                                                           |
| Vasilyevite         | $(Hg_2)^{2+}_{10}O_6I_3Br_2Cl(CO_3)$                                                         | A  | 2003-016  | USA                              | <i>Canadian Mineralogist</i> <b>41</b> (2003), 1167                                                                                     | <i>Canadian Mineralogist</i> <b>41</b> (2003), 1173                       |
| Västmanlandite-(Ce) | $Ce_3CaMg_2Al_2Si_5O_{19}(OH)_2F$                                                            | A  | 2002-025  | Sweden                           | <i>European Journal of Mineralogy</i> <b>17</b> (2005), 129                                                                             |                                                                           |
| Vaterite            | $Ca(CO_3)$                                                                                   | A  | 1962 s.p. | United Kingdom                   | <i>Verhandlungen der Gesellschaft Deutscher Naturforscher und Ärzte</i> <b>82</b> (1911), 120                                           | <i>Science</i> <b>340</b> (2013), 454                                     |
| Vaughanite          | $TlHgSb_4S_7$                                                                                | A  | 1987-055  | Canada                           | <i>Mineralogical Magazine</i> <b>53</b> (1989), 79                                                                                      |                                                                           |
| Vauquelinite        | $CuPb_2(CrO_4)(PO_4)(OH)$                                                                    | G  | 1818      | Russia                           | <i>Afhandlingar i Fysik, Kemi och Mineralogi</i> <b>6</b> (1818), 246                                                                   | <i>Zeitschrift für Kristallographie</i> <b>126</b> (1968), 433            |
| Vauxite             | $Fe^{2+}Al_2(PO_4)_2(OH)_2(H_2O)_4 \cdot 2H_2O$                                              | G  | 1922      | Bolivia                          | <i>Science</i> <b>56</b> (1922), 50                                                                                                     | <i>Canadian Mineralogist</i> <b>54</b> (2016), 163                        |
| Vavřinite           | $Ni_2SbTe_2$                                                                                 | A  | 2005-045  | Czech Republic                   | <i>Canadian Mineralogist</i> <b>45</b> (2007), 1213                                                                                     |                                                                           |
| Väyrynenite         | $BeMn^{2+}(PO_4)(OH)$                                                                        | G  | 1954      | Finland                          | <i>Anzeiger der Österreichischen Akademie der Wissenschaften Mathematisch-Naturwissenschaftliche Klasse</i> <b>2</b> (1954), 21         | <i>Canadian Mineralogist</i> <b>38</b> (2000), 1425                       |
| Veatchite           | $Sr_2B_{11}O_{16}(OH)_5(H_2O)$                                                               | G  | 1938      | USA                              | <i>American Mineralogist</i> <b>23</b> (1938), 409                                                                                      | <i>American Mineralogist</i> <b>97</b> (2012), 489                        |
| Veblenite           | $K_2\Box_2Na(Fe^{2+}_5Fe^{3+}_4Mn_7\Box)Nb_3Ti(Si_2O_7)_2(Si_8O_{22})_2O_6(OH)_{10}(H_2O)_3$ | A  | 2010-050  | Canada                           | <i>Mineralogical Magazine</i> <b>77</b> (2013), 2955                                                                                    |                                                                           |
| Veenite             | $Pb_2(Sb,As)_2S_5$                                                                           | A  | 1966-016  | Canada                           | <i>Canadian Mineralogist</i> <b>9</b> (1967), 7                                                                                         | <i>Mineralogical Magazine</i> <b>81</b> (2017), 355                       |
| Vegrandisite        | $BaCl_2$                                                                                     | A  | 2023-045a | Slovakia                         | <i>Journal of Geosciences</i> <b>70</b> (2025), 189                                                                                     |                                                                           |
| Velikite            | $Cu_2HgSnS_4$                                                                                | A  | 1996-052  | Kyrgyzstan                       | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>126(4)</b> (1997), 71                                                   | <i>Acta Crystallographica</i> <b>C79</b> (2023), 353                      |

|                    |                                                                                                                                                                 |    |           |                                  |                                                                                                              |                                                                                        |
|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----------|----------------------------------|--------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
| Vendidaite         | $\text{Al}_2(\text{SO}_4)(\text{OH})_3(\text{H}_2\text{O})_6\text{Cl}$                                                                                          | A  | 2012-089  | Chile                            | <i>Canadian Mineralogist</i> <b>51</b> (2013), 559                                                           |                                                                                        |
| Verbeekite         | $\text{PdSe}_2$                                                                                                                                                 | A  | 2001-005  | Democratic Republic of the Congo | <i>Mineralogical Magazine</i> <b>66</b> (2002), 173                                                          | <i>Inorganic Chemistry</i> <b>56</b> (2017), 5885                                      |
| Verbierite         | $\text{BeCr}^{3+}_2\text{TiO}_6$                                                                                                                                | A  | 2015-089  | Switzerland                      | CNMNC Newsletter 30 - <i>Mineralogical Magazine</i> <b>80</b> (2016), 407                                    |                                                                                        |
| Vergasovaite       | $\text{Cu}_3\text{O}(\text{MoO}_4)(\text{SO}_4)$                                                                                                                | A  | 1998-009  | Russia                           | <i>Schweizerische Mineralogische und Petrographische Mitteilungen</i> <b>78</b> (1998), 479                  | <i>American Mineralogist</i> <b>109</b> (2024), 471                                    |
| Vermiculite        | $\text{Mg}_{0.7}(\text{Mg},\text{Fe},\text{Al})_6(\text{Si},\text{Al})_8\text{O}_{20}(\text{OH})_4 \cdot 8\text{H}_2\text{O}$                                   | G  | 1824      | USA                              | <i>American Journal of Science and Arts</i> <b>7</b> (1824), 55                                              | <i>American Mineralogist</i> <b>95</b> (2010), 126                                     |
| Vernadite          | $(\text{Mn},\text{Fe},\text{Ca},\text{Na})(\text{O},\text{OH})_2 \cdot n\text{H}_2\text{O}$                                                                     | Q  | 1944      | Russia                           | <i>Izvestiya Akademii Nauk SSSR, Seriya Geologicheskaya</i> <b>4</b> (1944), 35                              | <i>Acta Crystallographica</i> <b>B75</b> (2019), 591                                   |
| Verneite           | $\text{Na}_2\text{Ca}_3\text{Al}_2\text{F}_{14}$                                                                                                                | A  | 2016-112  | Iceland / Italy                  | <i>Minerals</i> <b>8</b> (2018), 553                                                                         |                                                                                        |
| Verplanckite       | $\text{Ba}_4\text{Mn}^{2+}_2\text{Si}_4\text{O}_{12}(\text{OH},\text{H}_2\text{O})_3\text{Cl}_3$                                                                | A  | 1964-011  | USA                              | <i>American Mineralogist</i> <b>50</b> (1965), 314                                                           | <i>Acta Crystallographica</i> <b>B29</b> (1973), 2019                                  |
| Versiliaite        | $(\text{Fe}^{2+}_2\text{Fe}^{3+}_2)(\text{Fe}^{3+}_2\text{Sb}^{3+}_6)\text{O}_{16}\text{S}$                                                                     | A  | 1978-068  | Italy                            | <i>American Mineralogist</i> <b>64</b> (1979), 1230                                                          | <i>American Mineralogist</i> <b>64</b> (1979), 1235                                    |
| Vertumnite         | $\text{Ca}_4\text{Al}_4\text{Si}_4\text{O}_6(\text{OH})_{24}(\text{H}_2\text{O})_3$                                                                             | A  | 1975-043  | Italy                            | <i>Tschermaks Mineralogische und Petrographische Mitteilungen</i> <b>24</b> (1977), 57                       | <i>Tschermaks Mineralogische und Petrographische Mitteilungen</i> <b>25</b> (1978), 33 |
| Veselovskýite      | $\text{ZnCu}_4(\text{AsO}_4)_2(\text{AsO}_3\text{OH})_2(\text{H}_2\text{O})_8 \cdot \text{H}_2\text{O}$                                                         | A  | 2005-053  | Czech Republic                   | <i>Neues Jahrbuch für Mineralogie Abhandlungen</i> <b>187</b> (2010), 83                                     |                                                                                        |
| Vésigniéite        | $\text{Cu}_3\text{Ba}(\text{VO}_4)_2(\text{OH})_2$                                                                                                              | G  | 1955      | Germany                          | <i>Comptes Rendus Hebdomadaires des Séances de l' Académie des Sciences de Paris</i> <b>240</b> (1955), 2331 | <i>Acta Geologica Sinica</i> <b>4</b> (1991), 145                                      |
| Vestaite           | $(\text{Ti}^{4+}\text{Fe}^{2+})\text{Ti}^{4+}_3\text{O}_9$                                                                                                      | A  | 2017-068  | Morocco (meteorite)              | <i>American Mineralogist</i> <b>103</b> (2018), 1502                                                         |                                                                                        |
| Vesuvianite        | $(\text{Ca},\text{Na})_{19}(\text{Al},\text{Mg},\text{Fe})_{13}(\text{SiO}_4)_{10}(\text{Si}_2\text{O}_7)_4(\text{OH},\text{F},\text{O})_{10}$                  | A  | 1962 s.p. | Italy                            | Beiträge zur Chemischen Kenntniss der Mineralkörper, Vol. 1. Decker, Berlin (1795), 34                       | <i>Canadian Mineralogist</i> <b>54</b> (2016), 1525                                    |
| Veszelyite         | $(\text{Cu},\text{Zn})_2\text{Zn}(\text{PO}_4)(\text{OH})_3(\text{H}_2\text{O})_2$                                                                              | G  | 1874      | Romania                          | <i>Anzeiger der Kaiserlichen Akademie der Wissenschaften</i> <b>11</b> (1874), 135                           | <i>American Mineralogist</i> <b>98</b> (2013), 1261                                    |
| Viaeneite          | $(\text{Fe},\text{Pb})_4\text{S}_8\text{O}$                                                                                                                     | A  | 1993-051  | Belgium                          | <i>European Journal of Mineralogy</i> <b>8</b> (1996), 93                                                    | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1995), 433                          |
| Vicanite-(Ce)      | $(\text{Ca},\text{Ce},\text{La},\text{Th})_{15}\text{As}^{5+}(\text{As}^{3+},\text{Na})_{0.5}\text{Fe}^{3+}_{0.7}\text{Si}_6\text{B}_4(\text{O},\text{F})_{47}$ | A  | 1991-050  | Italy                            | <i>European Journal of Mineralogy</i> <b>7</b> (1995), 439                                                   | <i>American Mineralogist</i> <b>87</b> (2002), 1139                                    |
| Vielleaureite-(Ce) | $\text{Mn}^{2+}\text{Ce}(\text{MgAlMn}^{2+})(\text{Si}_2\text{O}_7)(\text{SiO}_4)\text{F}(\text{OH})$                                                           | A  | 2022-134  | France                           | <i>European Journal of Mineralogy</i> <b>37</b> (2025), 627                                                  |                                                                                        |
| Vigezzite          | $\text{CaNb}_2\text{O}_6$                                                                                                                                       | Rd | 1977-008  | Italy                            | <i>Mineralogical Magazine</i> <b>43</b> (1979), 459                                                          | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1990), 301                          |
| Vigrishinite       | $\text{Zn}\square\text{Ti}_2\text{Na}\square\text{Ti}_2(\text{Si}_2\text{O}_7)_2\text{O}_2\text{O}(\text{OH})(\text{H}_2\text{O})_4$                            | Rd | 2011-073  | Russia                           | <i>Zapiski Rossiyskogo Mineralogicheskogo Obshchestva</i> <b>141(4)</b> (2012), 12                           | <i>Mineralogical Magazine</i> <b>82</b> (2018), 787                                    |
| Vihorlatite        | $\text{Bi}_{24}\text{Se}_{17}\text{Te}_4$                                                                                                                       | A  | 1988-047  | Slovakia                         | <i>European Journal of Mineralogy</i> <b>19</b> (2007), 255                                                  |                                                                                        |
| Viitaniemiite      | $\text{NaCaAl}(\text{PO}_4)\text{F}_3$                                                                                                                          | A  | 1977-043  | Finland                          | <i>Bulletin of the Geological Society of Finland</i> <b>314</b> (1981), 1                                    | <i>American Mineralogist</i> <b>69</b> (1984), 961                                     |
| Vikingite          | $\text{Ag}_5\text{Pb}_8\text{Bi}_{13}\text{S}_{30}$                                                                                                             | A  | 1976-006  | Denmark (Greenland)              | <i>Neues Jahrbuch für Mineralogie Abhandlungen</i> <b>131</b> (1977), 56                                     | <i>Journal of Geosciences</i> <b>66</b> (2021), 175                                    |
| Villamanínite      | $\text{CuS}_2$                                                                                                                                                  | Rd | 1989 s.p. | Spain                            | <i>Mineralogical Magazine</i> <b>19</b> (1920), 14                                                           | <i>Acta Crystallographica</i> <b>B52</b> (1996), 899                                   |

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|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----------|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
| Villiaumite        | NaF                                                                                                                                                                        | G  | 1908      | Guinea                       | <i>Comptes Rendus Hebdomadaires des Séances de l' Académie des Sciences de Paris</i> <b>146</b> (1908), 213                            | <i>Acta Crystallographica</i> <b>14</b> (1961), 794                                                |
| Villyaellenite     | Mn <sub>3</sub> Ca <sub>2</sub> (AsO <sub>3</sub> OH) <sub>2</sub> (AsO <sub>4</sub> ) <sub>2</sub> (H <sub>2</sub> O) <sub>4</sub>                                        | A  | 1983-008a | France                       | <i>Schweizerische Mineralogische und Petrographische Mitteilungen</i> <b>64</b> (1984), 323                                            | <i>American Mineralogist</i> <b>94</b> (2009), 1535                                                |
| Vimsite            | CaB <sub>2</sub> O <sub>2</sub> (OH) <sub>4</sub>                                                                                                                          | A  | 1968-034  | Russia                       | <i>Doklady Akademii Nauk SSSR</i> <b>182</b> (1968), 1402                                                                              | <i>Kristallografiya</i> <b>21</b> (1976), 592                                                      |
| Vincentite         | Pd <sub>3</sub> As                                                                                                                                                         | A  | 1973-051  | Indonesia                    | <i>Mineralogical Magazine</i> <b>39</b> (1974), 525                                                                                    | <i>Canadian Mineralogist</i> <b>40</b> (2002), 457                                                 |
| Vinciennite        | Cu <sub>10</sub> Fe <sub>4</sub> SnAsS <sub>16</sub>                                                                                                                       | A  | 1983-031  | France                       | <i>Bulletin de Minéralogie</i> <b>108</b> (1985), 447                                                                                  | <i>Canadian Mineralogist</i> <b>42</b> (2004), 1501                                                |
| Vinogradovite      | Na <sub>4</sub> Ti <sub>4</sub> (Si <sub>2</sub> O <sub>6</sub> ) <sub>2</sub> [(Si,Al) <sub>4</sub> O <sub>10</sub> ]O <sub>4</sub> ·(H <sub>2</sub> O,Na,K) <sub>3</sub> | G  | 1956      | Russia                       | <i>Doklady Akademii Nauk SSSR</i> <b>109</b> (1956), 617                                                                               | <i>Zeitschrift für Kristallographie</i> <b>200</b> (1992), 237                                     |
| Violarite          | FeNi <sub>2</sub> S <sub>4</sub>                                                                                                                                           | G  | 1924      | Canada                       | <i>Economic Geology</i> <b>19</b> (1924), 309                                                                                          | <i>American Mineralogist</i> <b>91</b> (2006), 1442                                                |
| Virgilite          | LiAlSi <sub>2</sub> O <sub>6</sub>                                                                                                                                         | A  | 1977-009  | Peru                         | <i>American Mineralogist</i> <b>63</b> (1978), 461                                                                                     | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1990), 493                                      |
| Virgilluethite     | MoO <sub>3</sub> (H <sub>2</sub> O)                                                                                                                                        | A  | 2023-006  | USA                          | <i>Canadian Journal of Mineralogy and Petrology</i> <b>61</b> (2023), 1151                                                             |                                                                                                    |
| Vishnevite         | [Na <sub>6</sub> (SO <sub>4</sub> )] [Na <sub>2</sub> (H <sub>2</sub> O) <sub>2</sub> ](Al <sub>6</sub> Si <sub>6</sub> O <sub>24</sub> )                                  | G  | 1944      | Russia                       | <i>Doklady Akademii Nauk SSSR</i> <b>42</b> (1944), 304                                                                                | <i>American Mineralogist</i> <b>92</b> (2007), 713                                                 |
| Viskontite         | Pb <sub>5</sub> Cu <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> (SeO <sub>3</sub> )(OH) <sub>6</sub>                                                                       | A  | 2023-029  | Russia                       | CNMNC Newsletter 74 - <i>Mineralogical Magazine</i> <b>87</b> (2023), 783; <i>European Journal of Mineralogy</i> <b>35</b> (2023), 659 |                                                                                                    |
| Vismirnovite       | ZnSn(OH) <sub>6</sub>                                                                                                                                                      | A  | 1980-029  | Tajikistan                   | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>110</b> (1981), 492                                                      | <i>Bulletin de la Société Française de Minéralogie et de Cristallographie</i> <b>90</b> (1967), 32 |
| Vistepite          | Mn <sub>4</sub> SnB <sub>2</sub> O <sub>2</sub> (Si <sub>2</sub> O <sub>7</sub> ) <sub>2</sub> (OH) <sub>2</sub>                                                           | A  | 1991-012  | Kyrgyzstan                   | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>121(4)</b> (1992), 107                                                 | <i>Canadian Mineralogist</i> <b>35</b> (1997), 1283                                                |
| Viteite            | Pd <sub>5</sub> InAs                                                                                                                                                       | A  | 2019-040  | Russia                       | <i>Canadian Mineralogist</i> <b>58</b> (2020), 395                                                                                     |                                                                                                    |
| Vitimite           | Ca <sub>6</sub> B <sub>14</sub> O <sub>19</sub> (SO <sub>4</sub> )(OH) <sub>14</sub> ·5H <sub>2</sub> O                                                                    | A  | 2001-057  | Russia                       | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>131(4)</b> (2002), 41                                                  |                                                                                                    |
| Vittinkiite        | MnMn <sub>3</sub> Mn(Si <sub>5</sub> O <sub>15</sub> )                                                                                                                     | A  | 2017-082a | Finland                      | <i>Mineralogical Magazine</i> <b>84</b> (2020), 869                                                                                    |                                                                                                    |
| Vitusite-(Ce)      | Na <sub>3</sub> Ce(PO <sub>4</sub> ) <sub>2</sub>                                                                                                                          | Rn | 1987 s.p. | Denmark (Greenland) / Russia | <i>Neues Jahrbuch für Mineralogie Abhandlungen</i> <b>137</b> (1979), 42                                                               | <i>Zapiski Rossiyskogo Mineralogicheskogo Obshchestva</i> <b>155(1)</b> (2026), 79                 |
| Vivianite          | Fe <sup>2+</sup> <sub>3</sub> (PO <sub>4</sub> ) <sub>2</sub> (H <sub>2</sub> O) <sub>8</sub>                                                                              | G  | 1817      | United Kingdom               | Letztes Mineral-System. Craz und Gerlach und Carl Gerold, Freiberg und Wien (1817), 41                                                 | <i>Journal of Mineralogical and Petrological Sciences</i> <b>116</b> (2021), 183                   |
| Vladimirite        | Ca <sub>4</sub> (AsO <sub>4</sub> ) <sub>2</sub> (AsO <sub>3</sub> OH)(H <sub>2</sub> O) <sub>4</sub>                                                                      | Rd | 1964 s.p. | Russia                       | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>82</b> (1953), 311                                                       | <i>Canadian Mineralogist</i> <b>49</b> (2011), 1055                                                |
| Vladimirivanovite  | Na <sub>6</sub> Ca <sub>2</sub> [Al <sub>6</sub> Si <sub>6</sub> O <sub>24</sub> ](SO <sub>4</sub> ,S <sub>3</sub> ,S <sub>2</sub> ,Cl) <sub>2</sub> ·H <sub>2</sub> O     | A  | 2010-070  | Russia / Tajikistan          | <i>Zapiski Rossiyskogo Mineralogicheskogo Obshchestva</i> <b>140(5)</b> (2011), 36                                                     | <i>Zapiski Rossiyskogo Mineralogicheskogo Obshchestva</i> <b>155(1)</b> (2026), 114                |
| Vladkrivovichevite | [Pb <sub>32</sub> O <sub>18</sub> ][Pb <sub>4</sub> Mn <sub>2</sub> O]Cl <sub>14</sub> (BO <sub>3</sub> ) <sub>8</sub> (H <sub>2</sub> O) <sub>2</sub>                     | A  | 2011-020  | Namibia                      | <i>Mineralogical Magazine</i> <b>76</b> (2012), 883                                                                                    | <i>American Mineralogist</i> <b>98</b> (2013), 256                                                 |
| Vladkuzminite      | K <sub>4</sub> CuZn <sub>3</sub> (AsO <sub>4</sub> ) <sub>4</sub>                                                                                                          | A  | 2023-106  | Russia                       | CNMNC Newsletter 78 - <i>Mineralogical Magazine</i> <b>88</b> (2024), 345; <i>European Journal of Mineralogy</i> <b>36</b> (2024), 361 |                                                                                                    |
| Vladykinite        | Na <sub>3</sub> Sr <sub>4</sub> (Fe <sup>2+</sup> Fe <sup>3+</sup> )Si <sub>8</sub> O <sub>24</sub>                                                                        | A  | 2011-052  | Russia                       | <i>American Mineralogist</i> <b>99</b> (2014), 235                                                                                     |                                                                                                    |

|              |                                                                                                                                                       |    |           |                 |                                                                                                                    |                                                                                     |
|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----------|-----------------|--------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Vlasovite    | $\text{Na}_2\text{ZrSi}_4\text{O}_{11}$                                                                                                               | A  | 1967 s.p. | Russia          | <i>Doklady Akademii Nauk SSSR</i> <b>137</b> (1961), 944                                                           | <i>Crystallography Reports</i> <b>63</b> (2018), 1092                               |
| Vlodavetsite | $\text{Ca}_2\text{Al}(\text{SO}_4)_2\text{F}_2\text{Cl}(\text{H}_2\text{O})_4$                                                                        | A  | 1993-023  | Russia          | <i>Doklady Akademii Nauk</i> <b>343</b> (1995), 358                                                                | <i>Mineralogical Magazine</i> <b>59</b> (1995), 159                                 |
| Vochtenite   | $\text{Fe}^{2+}\text{Fe}^{3+}(\text{UO}_2)_4(\text{PO}_4)_4(\text{OH}) \cdot 12\text{-}13\text{H}_2\text{O}$                                          | A  | 1987-047  | United Kingdom  | <i>Mineralogical Magazine</i> <b>53</b> (1989), 473                                                                |                                                                                     |
| Voggite      | $\text{Na}_2\text{Zr}(\text{PO}_4)(\text{CO}_3)(\text{OH})(\text{H}_2\text{O})_2$                                                                     | A  | 1988-037  | Canada          | <i>Canadian Mineralogist</i> <b>28</b> (1990), 155                                                                 | <i>Mineralogical Magazine</i> <b>54</b> (1990), 495                                 |
| Voglite      | $\text{Ca}_2\text{Cu}(\text{UO}_2)(\text{CO}_3)_4 \cdot 6\text{H}_2\text{O}$                                                                          | G  | 1853      | Czech Republic  | <i>Jahrbuch der Kaiserlich-Königlichen Geologischen Reichsanstalt</i> <b>4</b> (1853), 220                         | <i>Journal of Applied Crystallography</i> <b>12</b> (1979), 616                     |
| Volaschioite | $\text{Fe}_4(\text{SO}_4)\text{O}_2(\text{OH})_6(\text{H}_2\text{O}) \cdot \text{H}_2\text{O}$                                                        | A  | 2010-005  | Italy           | <i>Canadian Mineralogist</i> <b>49</b> (2011), 605                                                                 |                                                                                     |
| Volborthite  | $\text{Cu}_3(\text{V}_2\text{O}_7)(\text{OH})_2 \cdot 2\text{H}_2\text{O}$                                                                            | A  | 1968 s.p. | Russia          | <i>Bulletin Scientifique publié par L'Académie Impériale des Sciences de Saint-Petersbourg</i> <b>4</b> (1838), 21 | <i>Zapiski Rossiyskogo Mineralogicheskogo Obshchestva</i> <b>150(5)</b> (2021), 115 |
| Volkonskoite | $\text{Ca}_{0.3}(\text{Cr,Mg})_2(\text{Si,Al})_4\text{O}_{10}(\text{OH})_2 \cdot 4\text{H}_2\text{O}$                                                 | Rd | 1987 s.p. | Russia          | Neues Jahrbuch für Mineralogie, Geognosie, Geologie und Petrefaktenkunde <b>2</b> (1831), 420                      | <i>Clays and Clay Minerals</i> <b>35</b> (1987), 139                                |
| Volkovskite  | $\text{KCa}_4\text{B}_{22}\text{O}_{32}(\text{OH})_{10}\text{Cl}(\text{H}_2\text{O})_4$                                                               | A  | 1968 s.p. | Kazakhstan      | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>95</b> (1966), 45                                    | <i>Canadian Mineralogist</i> <b>51</b> (2013), 157                                  |
| Voloshinite  | $\text{Rb}(\text{LiAl}_{1.5}\square_{0.5})(\text{Al}_{0.5}\text{Si}_{3.5})\text{O}_{10}\text{F}_2$                                                    | A  | 2007-052  | Russia          | <i>Zapiski Rossiyskogo Mineralogicheskogo Obshchestva</i> <b>138(3)</b> (2009), 90                                 |                                                                                     |
| Voltaite     | $\text{K}_2\text{Fe}^{2+}_5\text{Fe}^{3+}_3\text{Al}(\text{SO}_4)_{12}(\text{H}_2\text{O})_{18}$                                                      | G  | 1841      | Italy           | <i>Antologia di Scienze Naturali di Napoli</i> <b>1</b> (1841), 67                                                 | <i>American Mineralogist</i> <b>105</b> (2020), 1088                                |
| Volynskite   | $\text{AgBiTe}_2$                                                                                                                                     | A  | 1968 s.p. | Armenia         | <i>Akademii Nauk SSSR, Eksperimentalno Metodicheskie Issledovaniia Rudnykh Mineralov</i> (1965), 129               | <i>American Mineralogist</i> <b>76</b> (1991), 257                                  |
| Vonbezingite | $\text{Ca}_6\text{Cu}_3(\text{SO}_4)_3(\text{OH})_{12}(\text{H}_2\text{O})_2$                                                                         | A  | 1991-031  | South Africa    | <i>American Mineralogist</i> <b>77</b> (1992), 1292                                                                |                                                                                     |
| Vonsenite    | $\text{Fe}^{2+}_2\text{Fe}^{3+}\text{O}_2(\text{BO}_3)$                                                                                               | G  | 1920      | USA             | <i>American Mineralogist</i> <b>5</b> (1920), 141                                                                  | <i>American Mineralogist</i> <b>107</b> (2022), 92                                  |
| Vorlanite    | $\text{CaUO}_4$                                                                                                                                       | A  | 2009-032  | Russia          | <i>American Mineralogist</i> <b>96</b> (2011), 188                                                                 | <i>American Mineralogist</i> <b>98</b> (2013), 518                                  |
| Voronkovite  | $\text{Na}_{15}(\text{Na,Ca,Ce})_3(\text{Mn,Ca})_3\text{Fe}_3\text{Zr}_3\text{Si}_{26}\text{O}_{72}(\text{OH,O})_4\text{Cl} \cdot \text{H}_2\text{O}$ | A  | 2007-023  | Russia          | <i>Zapiski Rossiyskogo Mineralogicheskogo Obshchestva</i> <b>138(2)</b> (2009), 66                                 | <i>Crystallography Reports</i> <b>45</b> (2000), 591                                |
| Vorontsovite | $(\text{Hg}_5\text{Cu})\text{TlAs}_4\text{S}_{12}$                                                                                                    | A  | 2016-076  | Russia          | <i>Minerals</i> <b>8</b> (2018), 185                                                                               |                                                                                     |
| Voudourisite | $\text{Cd}(\text{SO}_4)(\text{H}_2\text{O})$                                                                                                          | A  | 2012-042  | Greece          | <i>Mineralogical Magazine</i> <b>83</b> (2019), 551                                                                |                                                                                     |
| Vozhminite   | $\text{Ni}_4\text{AsS}_2$                                                                                                                             | A  | 1981-040  | Russia          | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>111</b> (1982), 480                                  |                                                                                     |
| Vránaite     | $\text{Al}_{16}\text{B}_4\text{Si}_4\text{O}_{38}$                                                                                                    | A  | 2015-084  | Madagascar      | <i>American Mineralogist</i> <b>101</b> (2016), 2108                                                               |                                                                                     |
| Vrančiceite  | $\text{Cu}_{10}\text{Hg}_3\text{S}_8$                                                                                                                 | A  | 2022-114  | Czech Republic  | <i>Mineralogical Magazine</i> <b>87</b> (2023), 670                                                                |                                                                                     |
| Vrbaite      | $\text{Hg}_3\text{Tl}_4\text{As}_8\text{Sb}_2\text{S}_{20}$                                                                                           | G  | 1912      | North Macedonia | <i>Zeitschrift für Kristallographie und Mineralogie</i> <b>51</b> (1912), 365                                      | <i>Zeitschrift für Kristallographie</i> <b>134</b> (1971), 360                      |
| Vuagnatite   | $\text{CaAlSiO}_4(\text{OH})$                                                                                                                         | A  | 1975-007  | Turkey          | <i>American Mineralogist</i> <b>61</b> (1976), 825                                                                 | <i>American Mineralogist</i> <b>61</b> (1976), 831                                  |
| Vulcanite    | $\text{CuTe}$                                                                                                                                         | A  | 1967 s.p. | USA             | <i>American Mineralogist</i> <b>46</b> (1961), 258                                                                 | <i>Mineralogy and Petrology</i> <b>71</b> (2001), 149                               |
| Vuonnemite   | $\text{Na}_6\text{Na}_2\text{Nb}_2\text{Na}_3\text{Ti}(\text{Si}_2\text{O}_7)_2(\text{PO}_4)_2\text{O}_2(\text{OF})$                                  | Rd | 1973-015  | Russia          | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>102</b> (1973), 423                                  | <i>Crystallography Reports</i> <b>56</b> (2011), 407                                |

|                      |                                                                                                                                                                             |    |           |                                  |                                                                                                     |                                                                                  |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----------|----------------------------------|-----------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
| Vuorelainenite       | $\text{Mn}^{2+}\text{V}^{3+}_2\text{O}_4$                                                                                                                                   | A  | 1980-048  | Sweden                           | <i>Canadian Mineralogist</i> <b>20</b> (1982), 281                                                  |                                                                                  |
| Vuoriyarvite-K       | $(\text{K}, \text{Na}, \square)_{12}\text{Nb}_8(\text{Si}_4\text{O}_{12})_4\text{O}_8 \cdot 12\text{-}16\text{H}_2\text{O}$                                                 | Rn | 1995-031  | Russia                           | <i>Doklady Earth Sciences</i> <b>358</b> (1998), 73                                                 | <i>Crystallography Reports</i> <b>43</b> (1998), 820                             |
| Vurroite             | $\text{Pb}_{20}\text{Sn}_2(\text{Bi}, \text{As})_{22}\text{S}_{54}\text{Cl}_6$                                                                                              | A  | 2003-027  | Italy                            | <i>Canadian Mineralogist</i> <b>43</b> (2005), 703                                                  | <i>American Mineralogist</i> <b>93</b> (2008), 713                               |
| Vyacheslavite        | $\text{U}^{4+}(\text{PO}_4)(\text{OH})$                                                                                                                                     | A  | 1983-017  | Uzbekistan                       | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>113</b> (1984), 360                   | <i>American Mineralogist</i> <b>107</b> (2022), 131                              |
| Vyalsovite           | $\text{CaFeAlS}(\text{OH})_5$                                                                                                                                               | A  | 1989-004  | Russia                           | <i>American Mineralogist</i> <b>77</b> (1992), 201                                                  | <i>Doklady Earth Sciences</i> <b>503</b> (2022), 164                             |
| Vymazalováite        | $\text{Pd}_3\text{Bi}_2\text{S}_2$                                                                                                                                          | A  | 2016-105  | Russia                           | <i>Mineralogical Magazine</i> <b>82</b> (2018), 367                                                 |                                                                                  |
| Vysokýite            | $\text{U}^{4+}[\text{AsO}_2(\text{OH})_2]_4 \cdot 4\text{H}_2\text{O}$                                                                                                      | A  | 2012-067  | Czech Republic                   | <i>Mineralogical Magazine</i> <b>77</b> (2013), 3055                                                |                                                                                  |
| Vysotskite           | $\text{PdS}$                                                                                                                                                                | Rd | 2022 s.p. | Russia                           | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>91</b> (1962), 718                    | <i>Canadian Journal of Mineralogy and Petrology</i> <b>61</b> (2023), 167        |
| Vyuntspakhkite-(Y)   | $\text{Y}(\text{Al}, \text{Si})(\text{SiO}_4)(\text{OH}, \text{O})_2$                                                                                                       | Rn | 1987 s.p. | Russia                           | <i>Mineralogicheskij Zhurnal</i> <b>5</b> (1983), 89                                                | <i>Crystallography Reports</i> <b>54</b> (2009), 822                             |
| Wadalite             | $\text{Ca}_{12}\text{Al}_{10}\text{Si}_4\text{O}_{32}\text{Cl}_6$                                                                                                           | A  | 1987-045  | Japan                            | <i>Acta Crystallographica</i> <b>C49</b> (1993), 205                                                | <i>Mineralogical Magazine</i> <b>82</b> (2018), 1023                             |
| Wadeite              | $\text{K}_2\text{ZrSi}_3\text{O}_9$                                                                                                                                         | G  | 1939      | Australia                        | <i>Mineralogical Magazine</i> <b>25</b> (1939), 373                                                 | <i>Physics and Chemistry of Minerals</i> <b>32</b> (2005), 426                   |
| Wadsleyite           | $\text{Mg}_2\text{SiO}_4$                                                                                                                                                   | A  | 1982-012  | Canada (meteorite)               | <i>Canadian Mineralogist</i> <b>21</b> (1983), 29                                                   | <i>Physics of the Earth and Planetary Interiors</i> <b>189</b> (2011), 56        |
| Wagnerite            | $\text{Mg}_2(\text{PO}_4)\text{F}$                                                                                                                                          | Rd | 2003 s.p. | Austria                          | <i>Journal für Chemie und Physik</i> <b>33</b> (1821), 269                                          | <i>Canadian Mineralogist</i> <b>41</b> (2003), 393                               |
| Waimirite-(Y)        | $\text{YF}_3$                                                                                                                                                               | A  | 2013-108  | Brazil                           | <i>Mineralogical Magazine</i> <b>79</b> (2015), 767                                                 |                                                                                  |
| Waipouaite           | $\text{Ca}_3(\text{V}^{4+}_{4.5}\text{V}^{5+}_{0.5})\text{O}_9[(\text{Si}_2\text{O}_5(\text{OH})_2)[\text{Si}_3\text{O}_{7.5}(\text{OH})_{1.5}] \cdot 11\text{H}_2\text{O}$ | A  | 2019-095  | New Zealand                      | <i>American Mineralogist</i> <b>109</b> (2024), 934                                                 |                                                                                  |
| Wairakite            | $\text{Ca}(\text{Si}_4\text{Al}_2)\text{O}_{12} \cdot 2\text{H}_2\text{O}$                                                                                                  | A  | 1997 s.p. | New Zealand                      | <i>Mineralogical Magazine</i> <b>30</b> (1955), 691                                                 | <i>European Journal of Mineralogy</i> <b>15</b> (2003), 475                      |
| Wairauite            | $\text{CoFe}$                                                                                                                                                               | A  | 1964-015  | New Zealand                      | <i>Mineralogical Magazine</i> <b>33</b> (1964), 942                                                 | <i>Canadian Mineralogist</i> <b>28</b> (1990), 751                               |
| Wakabayashilite      | $(\text{As}, \text{Sb})_6\text{As}_4\text{S}_{14}$                                                                                                                          | A  | 1969-024  | Japan                            | <i>Geological Survey of Japan</i> <b>39</b> (1970), 92                                              | <i>Mineralogical Magazine</i> <b>78</b> (2014), 693                              |
| Wakefieldite-(Ce)    | $\text{Ce}(\text{VO}_4)$                                                                                                                                                    | Rn | 1987 s.p. | Democratic Republic of the Congo | <i>Bulletin de la Société Française de Minéralogie et de Cristallographie</i> <b>100</b> (1977), 39 | <i>American Mineralogist</i> <b>105</b> (2020), 1242                             |
| Wakefieldite-(La)    | $\text{La}(\text{VO}_4)$                                                                                                                                                    | A  | 1989-035a | Germany                          | <i>European Journal of Mineralogy</i> <b>20</b> (2008), 1135                                        | <i>Materials Research Bulletin</i> <b>50</b> (2014), 279                         |
| Wakefieldite-(Nd)    | $\text{Nd}(\text{VO}_4)$                                                                                                                                                    | A  | 2008-031  | Japan                            | <i>Resource Geology</i> <b>61</b> (2011), 101                                                       | <i>Materials Research Bulletin</i> <b>50</b> (2014), 279                         |
| Wakefieldite-(Y)     | $\text{Y}(\text{VO}_4)$                                                                                                                                                     | Rn | 1987 s.p. | Canada                           | <i>American Mineralogist</i> <b>56</b> (1971), 395                                                  | <i>Rendiconti Lincei, Scienze Fisiche e Naturali</i> <b>22</b> (2011), 307       |
| Walentaite           | $[\text{Mn}(\text{H}_2\text{O})_6][\square\text{As}^{3+}_3\text{Fe}^{3+}_3(\text{PO}_4)_2\text{O}_7]$                                                                       | Rd | 2020 s.p. | USA                              | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1984), 169                                       | <i>European Journal of Mineralogy</i> <b>31</b> (2019), 111                      |
| Walfordite           | $(\text{Fe}^{3+}, \text{Te}^{6+}, \text{Ti}^{4+}, \text{Mg})\text{Te}^{4+}_3\text{O}_8$                                                                                     | A  | 1996-003  | Chile                            | <i>Canadian Mineralogist</i> <b>37</b> (1999), 1261                                                 |                                                                                  |
| Walkerite            | $\text{Ca}_{16}(\text{Mg}, \text{Li})_2[\text{B}_{13}\text{O}_{17}(\text{OH})_{12}]_4\text{Cl}_6(\text{H}_2\text{O})_{12} \cdot 16\text{H}_2\text{O}$                       | A  | 2001-051  | Canada                           | <i>Canadian Mineralogist</i> <b>40</b> (2002), 1675                                                 |                                                                                  |
| Wallisite            | $\text{CuPbTiAs}_2\text{S}_5$                                                                                                                                               | A  | 1971 s.p. | Switzerland                      | <i>Eclogae Geologicae Helvetiae</i> <b>58</b> (1965), 403                                           | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (2003), 396                    |
| Wallkilldellite      | $\text{Ca}_2\text{Mn}^{2+}_3(\text{AsO}_4)_2(\text{OH})_4 \cdot 9\text{H}_2\text{O}$                                                                                        | A  | 1982-084  | USA                              | <i>American Mineralogist</i> <b>68</b> (1983), 1029                                                 | <i>Journal of Mineralogical and Petrological Sciences</i> <b>110</b> (2015), 150 |
| Wallkilldellite-(Fe) | $\text{Ca}_2\text{Fe}^{2+}_3(\text{AsO}_4)_2(\text{OH})_4 \cdot 9\text{H}_2\text{O}$                                                                                        | A  | 1997-032  | France                           | <i>Rivière Scientifique</i> <b>12</b> (1999), 5                                                     |                                                                                  |

|                 |                                                                                              |   |           |                                           |                                                                                                                                        |                                                                                         |
|-----------------|----------------------------------------------------------------------------------------------|---|-----------|-------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| Walpurgite      | $(\text{UO}_2)\text{Bi}_4\text{O}_4(\text{AsO}_4)_2(\text{H}_2\text{O})_2$                   | G | 1871      | Germany                                   | <i>Neues Jahrbuch für Mineralogie, Geologie und Paläontologie</i> (1871), 869                                                          | <i>Tschermaks Mineralogische und Petrographische Mitteilungen</i> <b>30</b> (1982), 129 |
| Walstromite     | $\text{BaCa}_2\text{Si}_3\text{O}_9$                                                         | A | 1964-009  | USA                                       | <i>American Mineralogist</i> <b>50</b> (1965), 314                                                                                     | <i>Minerals</i> <b>10</b> (2020), 407                                                   |
| Walthierite     | $\text{Ba}_{0.5}\text{Al}_3(\text{SO}_4)_2(\text{OH})_6$                                     | A | 1991-008  | Chile                                     | <i>American Mineralogist</i> <b>77</b> (1992), 1275                                                                                    |                                                                                         |
| Wampenite       | $\text{C}_{18}\text{H}_{16}$                                                                 | A | 2015-061  | Germany                                   | <i>European Journal of Mineralogy</i> <b>29</b> (2017), 511                                                                            |                                                                                         |
| Wangdaodeite    | $\text{FeTiO}_3$                                                                             | A | 2016-007  | China                                     | <i>Meteoritics &amp; Planetary Science</i> <b>55</b> (2020), 184                                                                       | <i>Minerals</i> <b>10</b> (2020), 1072                                                  |
| Wanguirenite    | $\text{Pb}_3\text{Cl}_2(\text{SeO}_3)_2$                                                     | A | 2023-030  | Italy                                     | CNMNC Newsletter 74 - <i>Mineralogical Magazine</i> <b>87</b> (2023), 783; <i>European Journal of Mineralogy</i> <b>35</b> (2023), 659 |                                                                                         |
| Wangpuite       | $\text{K}_3(\text{PO}_4)(\text{Mo}_{12}\text{O}_{36})$                                       | A | 2022-111  | USA                                       | CNMNC Newsletter 71 - <i>Mineralogical Magazine</i> <b>87</b> (2023), 332; <i>European Journal of Mineralogy</i> <b>35</b> (2023), 75  |                                                                                         |
| Wangxibinite    | $\text{TiFe}$                                                                                | A | 2023-081c | China                                     | CNMNC Newsletter 87 - <i>Mineralogical Magazine</i> <b>89</b> (2025), 706; <i>European Journal of Mineralogy</i> <b>37</b> (2025), 695 |                                                                                         |
| Wangyanite      | $\text{PdNi}_8\text{S}_8$                                                                    | A | 2024-008a | USA                                       | <i>American Mineralogist</i> <b>110</b> (2025), 1844                                                                                   |                                                                                         |
| Wardite         | $\text{NaAl}_3(\text{PO}_4)_2(\text{OH})_4(\text{H}_2\text{O})_2$                            | G | 1896      | USA                                       | <i>American Journal of Science</i> <b>152</b> (1896), 154                                                                              | <i>Minerals</i> <b>10</b> (2020), 877                                                   |
| Wardsmithite    | $\text{Ca}_5\text{Mg}(\text{B}_4\text{O}_7)_6 \cdot 30\text{H}_2\text{O}$                    | A | 1967-030  | USA                                       | <i>American Mineralogist</i> <b>55</b> (1970), 349                                                                                     |                                                                                         |
| Warikahnite     | $\text{Zn}_3(\text{AsO}_4)_2(\text{H}_2\text{O})_2$                                          | A | 1978-038  | Namibia                                   | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1979), 389                                                                          | <i>Tschermaks Mineralogische und Petrographische Mitteilungen</i> <b>27</b> (1980), 187 |
| Warkite         | $\text{Ca}_2\text{Sc}_6\text{Al}_6\text{O}_{20}$                                             | A | 2013-129  | Australia (meteorite) / Italy (meteorite) | <i>Geochimica et Cosmochimica Acta</i> <b>277</b> (2020), 52                                                                           |                                                                                         |
| Warwickite      | $(\text{Mg}, \text{Ti}, \text{Fe}, \text{Cr}, \text{Al})_2\text{O}(\text{BO}_3)$             | G | 1838      | USA                                       | <i>American Journal of Science and Arts</i> <b>34</b> (1838), 313                                                                      | <i>Canadian Mineralogist</i> <b>58</b> (2020), 183                                      |
| Wassonite       | $\text{TiS}$                                                                                 | A | 2010-074  | Antarctica                                | <i>American Mineralogist</i> <b>97</b> (2012), 807                                                                                     |                                                                                         |
| Watanabeite     | $\text{Cu}_4(\text{As}, \text{Sb})_2\text{S}_5$                                              | A | 1991-025  | Japan                                     | <i>Mineralogical Magazine</i> <b>57</b> (1993), 643                                                                                    | <i>Mineralogical Magazine</i> <b>88</b> (2024), 218                                     |
| Watatsumiite    | $\text{LiNa}_2\text{KMn}_2\text{V}_2\text{Si}_8\text{O}_{24}$                                | A | 2001-043  | Japan                                     | <i>Journal of Mineralogical and Petrological Sciences</i> <b>98</b> (2003), 142                                                        |                                                                                         |
| Waterhouseite   | $\text{Mn}_7(\text{PO}_4)_2(\text{OH})_8$                                                    | A | 2004-035  | Australia                                 | <i>Canadian Mineralogist</i> <b>43</b> (2005), 1401                                                                                    |                                                                                         |
| Watkinsonite    | $\text{PbCu}_2\text{Bi}_4(\text{Se}, \text{S})_8$                                            | A | 1985-024  | Canada                                    | <i>Canadian Mineralogist</i> <b>25</b> (1987), 625                                                                                     | <i>Canadian Mineralogist</i> <b>48</b> (2010), 1109                                     |
| Wattersite      | $\text{Hg}^{1+}_4\text{Hg}^{2+}\text{O}_2(\text{CrO}_4)$                                     | A | 1987-030  | USA                                       | <i>Mineralogical Record</i> <b>22</b> (1991), 269                                                                                      | <i>Canadian Mineralogist</i> <b>33</b> (1995), 41                                       |
| Wattevilleite   | $\text{Na}_2\text{Ca}(\text{SO}_4)_2 \cdot 4\text{H}_2\text{O}$ (?)                          | Q | 1879      | Germany                                   | Beiträge zur Kenntniss der am Bauersberge bei Bischofsheim vor der Rhön vorkommenden Sulfate. Würzburg (1879), 18                      | <i>Australian Journal of Mineralogy</i> <b>13</b> (2007), 41                            |
| Wavellite       | $\text{Al}_3(\text{PO}_4)_2(\text{OH})_3(\text{H}_2\text{O})_5$                              | A | 1971 s.p. | United Kingdom                            | <i>Philosophical Transactions of the Royal Society of London</i> (1805), 162                                                           | <i>Mineralogical Magazine</i> <b>78</b> (2014), 1057                                    |
| Wawayandaite    | $\text{Ca}_6\text{Be}_9\text{Mn}^{2+}_2\text{BSi}_6\text{O}_{23}(\text{OH}, \text{Cl})_{15}$ | A | 1988-043  | USA                                       | <i>American Mineralogist</i> <b>75</b> (1990), 405                                                                                     |                                                                                         |
| Waylandite      | $\text{BiAl}_3(\text{PO}_4)_2(\text{OH})_6$                                                  | A | 1962-003  | Uganda                                    | <i>Geological Society of America Special Paper</i> <b>73</b> (1963), 156A                                                              | <i>Mineralogy and Petrology</i> <b>100</b> (2010), 249                                  |
| Wayneburnhamite | $\text{Pb}_9\text{Ca}_6(\text{Si}_2\text{O}_7)_3(\text{SiO}_4)_3$                            | A | 2015-124  | USA                                       | <i>American Mineralogist</i> <b>101</b> (2016), 2423                                                                                   |                                                                                         |
| Weberite        | $\text{Na}_2\text{MgAlF}_7$                                                                  | G | 1938      | Denmark (Greenland)                       | <i>Meddelelser om Grønland</i> <b>119</b> (1938), 1                                                                                    | <i>Journal of Solid State Chemistry</i> <b>43</b> (1982), 213                           |

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|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----------|------------------|-----------------------------------------------------------------------------------------------------|----------------------------------------------------------------|
| Weddellite         | $\text{Ca}(\text{C}_2\text{O}_4)(\text{H}_2\text{O})_2$                                                                                                | G  | 1942      | Antarctica       | <i>Science</i> <b>95</b> (1942), 431                                                                | <i>American Mineralogist</i> <b>99</b> (2014), 2               |
| Weeksite           | $(\text{K})_2(\text{UO}_2)_2(\text{Si}_5\text{O}_{13})(\text{H}_2\text{O})_2 \cdot 2\text{H}_2\text{O}$                                                | A  | 1962 s.p. | USA              | <i>American Mineralogist</i> <b>45</b> (1960), 39                                                   | <i>American Mineralogist</i> <b>97</b> (2012), 750             |
| Wegscheiderite     | $\text{Na}_5\text{H}_3(\text{CO}_3)_4$                                                                                                                 | A  | 1967 s.p. | USA              | <i>American Mineralogist</i> <b>48</b> (1963), 800                                                  | <i>Acta Crystallographica</i> <b>B46</b> (1990), 466           |
| Weibullite         | $\text{Ag}_{0.33}\text{Pb}_{5.33}\text{Bi}_{8.33}(\text{S}, \text{Se})_{18}$                                                                           | Rd | 1980 s.p. | Sweden           | <i>Arkiv för Kemi, Mineralogi och Geologi</i> <b>3</b> (1910), 4                                    | <i>Canadian Mineralogist</i> <b>18</b> (1980), 1               |
| Weilerite          | $\text{BaAl}_3(\text{SO}_4)(\text{AsO}_4)(\text{OH})_6$                                                                                                | Rd | 1987 s.p. | Germany          | <i>Jahreshefte des Geologischen Landesamtes in Baden-Württemberg</i> <b>4</b> (1961), 7             | <i>American Mineralogist</i> <b>72</b> (1987), 178             |
| Weilite            | $\text{Ca}(\text{AsO}_3\text{OH})$                                                                                                                     | A  | 1963-006  | France / Germany | <i>Bulletin de la Société Française de Minéralogie et de Cristallographie</i> <b>86</b> (1963), 368 | <i>Acta Crystallographica</i> <b>B26</b> (1970), 403           |
| Weinebeneite       | $\text{CaBe}_3(\text{PO}_4)_2(\text{OH})_2(\text{H}_2\text{O})_4$                                                                                      | A  | 1990-049  | Austria          | <i>European Journal of Mineralogy</i> <b>4</b> (1992), 1275                                         |                                                                |
| Weishanite         | $(\text{Au}, \text{Ag}, \text{Hg})$                                                                                                                    | A  | 1982-076  | China            | <i>Acta Mineralogica Sinica</i> <b>4</b> (1984), 102                                                | <i>Mineralogical Magazine</i> <b>82</b> (2018), 1141           |
| Weissbergite       | $\text{TiSbS}_2$                                                                                                                                       | A  | 1975-040  | USA              | <i>American Mineralogist</i> <b>63</b> (1978), 720                                                  | <i>Acta Crystallographica</i> <b>C39</b> (1983), 971           |
| Weissite           | $\text{Cu}_{2-x}\text{Te}$                                                                                                                             | G  | 1927      | USA              | <i>American Journal of Science</i> <b>13</b> (1927), 345                                            | <i>Mineralogical Magazine</i> <b>77</b> (2013), 475            |
| Welinite           | $\text{Mn}^{2+}_6(\text{W}^{6+}\square)(\text{SiO}_4)_2\text{O}_4(\text{OH})_2$                                                                        | Rd | 1966-002  | Sweden           | <i>Arkiv för Mineralogi och Geologi</i> <b>4</b> (1967), 407                                        | <i>American Mineralogist</i> <b>71</b> (1986), 1522            |
| Weloganite         | $\text{Na}_2\text{Sr}_3\text{Zr}(\text{CO}_3)_6(\text{H}_2\text{O})_3$                                                                                 | A  | 1967-042  | Canada           | <i>Canadian Mineralogist</i> <b>9</b> (1968), 468                                                   | <i>Canadian Mineralogist</i> <b>13</b> (1975), 209             |
| Welshite           | $\text{Ca}_4[\text{Mg}_9\text{Sb}^{5+}_3]\text{O}_4[\text{Si}_6\text{Be}_3\text{AlFe}^{3+}_2\text{O}_{36}]$                                            | A  | 1973-019  | Sweden           | <i>Mineralogical Magazine</i> <b>42</b> (1978), 129                                                 | <i>American Mineralogist</i> <b>92</b> (2007), 80              |
| Wendwilsonite      | $\text{Ca}_2\text{Mg}(\text{AsO}_4)_2(\text{H}_2\text{O})_2$                                                                                           | A  | 1985-047  | Morocco          | <i>American Mineralogist</i> <b>72</b> (1987), 217                                                  | <i>European Journal of Mineralogy</i> <b>18</b> (2006), 471    |
| Wenjiite           | $\text{Ti}_{10}\text{Si}_x\text{P}_y \quad [x > y, 6 \leq (x + y) \leq 7]$                                                                             | A  | 2019-107c | China            | <i>American Mineralogist</i> <b>108</b> (2023), 197                                                 |                                                                |
| Wenkite            | $\text{Ba}_4\text{Ca}_6(\text{Si}, \text{Al})_{20}\text{O}_{41}(\text{OH})_2(\text{SO}_4)_3(\text{H}_2\text{O})$                                       | A  | 1967 s.p. | Italy            | <i>Schweizerische Mineralogische und Petrographische Mitteilungen</i> <b>42</b> (1962), 269         | <i>Acta Crystallographica</i> <b>B30</b> (1974), 1262          |
| Wenlanzhangite-(Y) | $\text{YV}^{3+}\text{V}^{4+}(\text{SiO}_4)_2\text{O}_2(\text{OH})_2$                                                                                   | A  | 2022-142  | China            | <i>American Mineralogist</i> <b>109</b> (2024), 1738                                                |                                                                |
| Wenqingite         | $\text{Pb}_5(\text{AsS}_3)_2(\text{Ge}_2\text{S}_6)$                                                                                                   | A  | 2024-098  | China            | <i>American Mineralogist</i> <b>111</b> (2026), 796                                                 |                                                                |
| Weringite          | $\text{Mg}_2\text{Al}_{14}\text{Si}_4\text{B}_4\text{O}_{37}$                                                                                          | A  | 1988-023  | South Africa     | <i>American Mineralogist</i> <b>75</b> (1990), 415                                                  | <i>European Journal of Mineralogy</i> <b>23</b> (2011), 577    |
| Wermlandite        | $\text{Mg}_7\text{Al}_2(\text{OH})_{18}[\text{Ca}(\text{H}_2\text{O})_6](\text{SO}_4)_2 \cdot 6\text{H}_2\text{O}$                                     | A  | 1970-007  | Sweden           | <i>Lithos</i> <b>4</b> (1971), 213                                                                  | <i>Zeitschrift für Kristallographie</i> <b>168</b> (1984), 133 |
| Wernerbaurite      | $\{(\text{NH}_4)_2[\text{Ca}_2(\text{H}_2\text{O})_{14}](\text{H}_2\text{O})_2\}\{\text{V}_{10}\text{O}_{28}\}$                                        | Rd | 2015 s.p. | USA              | <i>Canadian Mineralogist</i> <b>51</b> (2013), 297                                                  | <i>Canadian Mineralogist</i> <b>54</b> (2016), 555             |
| Wernerkrauseite    | $\text{CaFe}^{3+}_2\text{Mn}^{4+}\text{O}_6$                                                                                                           | A  | 2014-008  | Germany          | <i>European Journal of Mineralogy</i> <b>28</b> (2016), 485                                         |                                                                |
| Wesselsite         | $\text{SrCuSi}_4\text{O}_{10}$                                                                                                                         | A  | 1994-055  | South Africa     | <i>Mineralogical Magazine</i> <b>60</b> (1996), 795                                                 | <i>Journal of Geosciences</i> <b>69</b> (2024), 161            |
| Westerveldite      | $\text{FeAs}$                                                                                                                                          | A  | 1971-017  | Spain            | <i>American Mineralogist</i> <b>57</b> (1972), 354                                                  | <i>Acta Crystallographica</i> <b>B40</b> (1984), 14            |
| Wetherillite       | $\text{Na}_2\text{Mg}(\text{UO}_2)_2(\text{SO}_4)_4(\text{H}_2\text{O})_{14} \cdot 4\text{H}_2\text{O}$                                                | A  | 2014-044  | USA              | <i>Mineralogical Magazine</i> <b>79</b> (2015), 695                                                 |                                                                |
| Wheatleyite        | $\text{Na}_2\text{Cu}(\text{C}_2\text{O}_4)_2(\text{H}_2\text{O})_2$                                                                                   | A  | 1984-040  | USA              | <i>American Mineralogist</i> <b>71</b> (1986), 1240                                                 | <i>Acta Crystallographica</i> <b>B36</b> (1980), 2145          |
| Whelanite          | $\text{Cu}_2\text{Ca}_6[\text{Si}_6\text{O}_{17}(\text{OH})](\text{CO}_3)(\text{OH})_3(\text{H}_2\text{O})_2$                                          | A  | 1977-006  | USA              | <i>American Mineralogist</i> <b>97</b> (2012), 2007                                                 |                                                                |
| Wherryite          | $\text{Pb}_7\text{Cu}_2(\text{SO}_4)_4(\text{SiO}_4)_2(\text{OH})_2$                                                                                   | G  | 1950      | USA              | <i>American Mineralogist</i> <b>35</b> (1950), 93                                                   | <i>Canadian Mineralogist</i> <b>32</b> (1994), 373             |
| Whewellite         | $\text{Ca}(\text{C}_2\text{O}_4)(\text{H}_2\text{O})$                                                                                                  | A  | 1967 s.p. | Hungary ?        | An Elementary Introduction to Mineralogy. Longmans, London (1852), 523                              | <i>Mineralogical Magazine</i> <b>69</b> (2005), 77             |
| Whitecapsite       | $\text{H}_{16}\text{Fe}^{2+}_5\text{Fe}^{3+}_{14}\text{Sb}^{3+}_6(\text{AsO}_4)_{18}\text{O}_{16}(\text{H}_2\text{O})_{60} \cdot 60\text{H}_2\text{O}$ | A  | 2012-030  | USA              | <i>European Journal of Mineralogy</i> <b>26</b> (2014), 577                                         |                                                                |

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| Whiteite-(CaFeMg)  | $\text{CaFe}^{2+}\text{Mg}_2\text{Al}_2(\text{PO}_4)_4(\text{OH})_2(\text{H}_2\text{O})_8$                                                                                                                   | A | 1975-001  | Brazil       | <i>Mineralogical Magazine</i> <b>42</b> (1978), 309                                           | <i>Zeitschrift für Kristallographie</i> <b>226</b> (2011), 731                              |
| Whiteite-(CaMgMg)  | $\text{CaMg}_3\text{Al}_2(\text{PO}_4)_4(\text{OH})_2(\text{H}_2\text{O})_8$                                                                                                                                 | A | 2016-001  | USA          | <i>Canadian Mineralogist</i> <b>54</b> (2016), 1513                                           |                                                                                             |
| Whiteite-(CaMnFe)  | $\text{CaMnFe}_2\text{Al}_2(\text{PO}_4)_4(\text{OH})_2(\text{H}_2\text{O})_8$                                                                                                                               | A | 2022-072  | Germany      | <i>European Journal of Mineralogy</i> <b>35</b> (2023), 95                                    |                                                                                             |
| Whiteite-(CaMnMg)  | $\text{CaMn}^{2+}\text{Mg}_2\text{Al}_2(\text{PO}_4)_4(\text{OH})_2(\text{H}_2\text{O})_8$                                                                                                                   | A | 1986-012  | USA          | <i>Canadian Mineralogist</i> <b>27</b> (1989), 699                                            |                                                                                             |
| Whiteite-(CaMnMn)  | $\text{CaMn}^{2+}\text{Mn}^{2+}_2\text{Al}_2(\text{PO}_4)_4(\text{OH})_2(\text{H}_2\text{O})_8$                                                                                                              | A | 2011-002  | Germany      | <i>Mineralogical Magazine</i> <b>76</b> (2012), 2761                                          |                                                                                             |
| Whiteite-(MnFeMg)  | $\text{Mn}^{2+}\text{Fe}^{2+}\text{Mg}_2\text{Al}_2(\text{PO}_4)_4(\text{OH})_2(\text{H}_2\text{O})_8$                                                                                                       | A | 1978 s.p. | Brazil       | <i>Mineralogical Magazine</i> <b>42</b> (1978), 309                                           |                                                                                             |
| Whiteite-(MnMnMg)  | $\text{Mn}^{2+}\text{Mn}^{2+}\text{Mg}_2\text{Al}_2(\text{PO}_4)_4(\text{OH})_2(\text{H}_2\text{O})_8$                                                                                                       | A | 2015-092  | Australia    | <i>Canadian Mineralogist</i> <b>57</b> (2019), 215                                            |                                                                                             |
| Whiteite-(MnMnMn)  | $\text{Mn}^{2+}\text{Mn}^{2+}\text{Mn}^{2+}_2\text{Al}_2(\text{PO}_4)_4(\text{OH})_2(\text{H}_2\text{O})_8$                                                                                                  | A | 2021-049  | USA          | <i>Mineralogical Magazine</i> <b>85</b> (2021), 862                                           |                                                                                             |
| Whiterockite       | $\text{CaMgMn}^{3+}_3\text{O}_2(\text{PO}_4)_2(\text{CO}_3)\text{F}(\text{H}_2\text{O})_5$                                                                                                                   | A | 2020-044  | Australia    | <i>Mineralogical Magazine</i> <b>89</b> (2025), 127                                           |                                                                                             |
| Whitlockite        | $\text{Ca}_9\Box\text{Mg}(\text{PO}_3\text{OH})(\text{PO}_4)_6$                                                                                                                                              | G | 1941      | USA          | <i>American Mineralogist</i> <b>26</b> (1941), 145                                            | <i>American Mineralogist</i> <b>109</b> (2024), 1973                                        |
| Whitmoreite        | $\text{Fe}^{2+}\text{Fe}^{3+}_2(\text{PO}_4)_2(\text{OH})_2(\text{H}_2\text{O})_4$                                                                                                                           | A | 1974-009  | USA          | <i>American Mineralogist</i> <b>59</b> (1974), 900                                            |                                                                                             |
| Wickenburgite      | $\text{Pb}_3\text{CaAl}_2\text{Si}_{10}\text{O}_{27}(\text{H}_2\text{O})_3 \cdot \text{H}_2\text{O}$                                                                                                         | A | 1968-006  | USA          | <i>American Mineralogist</i> <b>53</b> (1968), 1433                                           | <i>Zeitschrift für Kristallographie</i> <b>218</b> (2003), 542                              |
| Wickmanite         | $\text{Mn}^{2+}\text{Sn}^{4+}(\text{OH})_6$                                                                                                                                                                  | A | 1965-024  | Sweden       | <i>Arkiv för Mineralogi och Geologi</i> <b>4</b> (1967), 395                                  | <i>Canadian Mineralogist</i> <b>36</b> (1998), 1203                                         |
| Wicksite           | $\text{NaCa}_2\text{Fe}^{2+}_2(\text{Fe}^{3+}, \text{Mn}^{2+}, \text{Fe}^{2+})_4(\text{PO}_4)_6(\text{H}_2\text{O})_2$                                                                                       | A | 1979-019  | Canada       | <i>Canadian Mineralogist</i> <b>19</b> (1981), 377                                            | <i>Canadian Mineralogist</i> <b>35</b> (1997), 777                                          |
| Widenmannite       | $\text{Pb}_2(\text{OH})_2[(\text{UO}_2)(\text{CO}_3)_2]$                                                                                                                                                     | A | 1974-008  | Germany      | <i>Schweizerische Mineralogische und Petrographische Mitteilungen</i> <b>56</b> (1976), 167   | <i>Inorganic Chemistry Frontiers</i> <b>7</b> (2020), 4197                                  |
| Widgiemoolthalite  | $\text{Ni}_5(\text{CO}_3)_4(\text{OH})_2(\text{H}_2\text{O})_{4-5}$                                                                                                                                          | A | 1992-006  | Australia    | <i>American Mineralogist</i> <b>78</b> (1993), 819                                            |                                                                                             |
| Wightmanite        | $\text{Mg}_5\text{O}(\text{BO}_3)(\text{OH})_5(\text{H}_2\text{O})_2$                                                                                                                                        | A | 1967 s.p. | USA          | <i>American Mineralogist</i> <b>47</b> (1962), 718                                            | <i>Canadian Mineralogist</i> <b>59</b> (2021), 321                                          |
| Wiklundite         | $\text{Pb}_2(\text{Mn}^{2+}, \text{Zn})_3(\text{Fe}^{3+}, \text{Mn}^{2+})_2(\text{Mn}^{2+}, \text{Mg})_{19}(\text{As}^{3+}\text{O}_3)_2[(\text{Si}, \text{As}^{5+})\text{O}_4]_6(\text{OH})_{18}\text{Cl}_6$ | A | 2015-057  | Sweden       | <i>Mineralogical Magazine</i> <b>81</b> (2017), 841                                           |                                                                                             |
| Wilancookite       | $(\text{Ba}_5\text{Li}_2\Box)\text{Ba}_6\text{Be}_{24}\text{P}_{24}\text{O}_{96} \cdot 26\text{H}_2\text{O}$                                                                                                 | A | 2015-034  | Brazil       | <i>European Journal of Mineralogy</i> <b>29</b> (2017), 923                                   | <i>Canadian Mineralogist</i> <b>58</b> (2020), 815                                          |
| Wilcoxite          | $\text{MgAl}(\text{SO}_4)_2\text{F}(\text{H}_2\text{O})_{11} \cdot 6\text{H}_2\text{O}$                                                                                                                      | A | 1979-070  | USA          | <i>Mineralogical Magazine</i> <b>47</b> (1983), 37                                            | <i>Atti della Società Toscana di Scienze Naturali, Mem., Ser. A</i> (2019), <b>126</b> , 33 |
| Wildcatite         | $\text{CaFe}^{3+}\text{Te}^{6+}\text{O}_5(\text{OH})$                                                                                                                                                        | A | 2020-019  | USA          | <i>Canadian Mineralogist</i> <b>59</b> (2021), 729                                            |                                                                                             |
| Wildenauerite      | $\text{Zn}(\text{Fe}^{3+}_{0.5}\text{Mn}^{2+}_{0.5})_2\text{Mn}^{2+}\text{Fe}^{3+}(\text{PO}_4)_3(\text{OH})_3(\text{H}_2\text{O})_8$                                                                        | A | 2017-058  | Germany      | <i>Mineralogical Magazine</i> <b>83</b> (2019), 181                                           |                                                                                             |
| Wilhelmgümbelite   | $[\text{ZnFe}^{2+}\text{Fe}^{3+}_3(\text{PO}_4)_3(\text{OH})_4(\text{H}_2\text{O})_5] \cdot 2\text{H}_2\text{O}$                                                                                             | A | 2015-072  | Germany      | <i>Mineralogical Magazine</i> <b>81</b> (2017), 287                                           |                                                                                             |
| Wilhelmkleinitite  | $\text{ZnFe}^{3+}_2(\text{AsO}_4)_2(\text{OH})_2$                                                                                                                                                            | A | 1997-034  | Namibia      | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1998), 558                                 | <i>Zeitschrift für Kristallographie</i> <b>215</b> (2000), 96                               |
| Wilhelmramsayite   | $\text{Cu}_3\text{FeS}_3 \cdot 2\text{H}_2\text{O}$                                                                                                                                                          | A | 2004-033  | Russia       | <i>Proceedings of the Russian Mineralogical Society</i> <b>135(1)</b> (2006), 38              |                                                                                             |
| Wilhelmvierlingite | $\text{CaMn}^{2+}\text{Fe}^{3+}(\text{PO}_4)_2(\text{OH})(\text{H}_2\text{O})_2$                                                                                                                             | A | 1982-025  | Germany      | <i>Aufschluss</i> <b>34</b> (1983), 267                                                       |                                                                                             |
| Wilkinsonite       | $\text{Na}_4[\text{Fe}^{2+}_8\text{Fe}^{3+}_4]\text{O}_4[\text{Si}_{12}\text{O}_{36}]$                                                                                                                       | A | 1988-053  | Australia    | <i>American Mineralogist</i> <b>75</b> (1990), 694                                            | <i>Acta Crystallographica</i> <b>E63</b> (2007), i122                                       |
| Wilkmanite         | $\text{Ni}_3\text{Se}_4$                                                                                                                                                                                     | A | 1967 s.p. | Finland      | <i>Comptes Rendus de la Société Géologique de Finlande</i> <b>36</b> (1964), 113              | <i>Neues Jahrbuch für Mineralogie Abhandlungen</i> <b>94</b> (1960), 1147                   |
| Willemite          | $\text{Zn}_2(\text{SiO}_4)$                                                                                                                                                                                  | G | 1830      | Belgium      | <i>Jahrbuch für Mineralogie, Geognosie, Geologie und Petrefaktenkunde</i> <b>1</b> (1830), 71 | <i>Acta Crystallographica</i> <b>B34</b> (1978), 3324                                       |
| Willemseite        | $\text{Ni}_3\text{Si}_4\text{O}_{10}(\text{OH})_2$                                                                                                                                                           | A | 1971 s.p. | South Africa | <i>National Institute for Metallurgy, Research Report</i> <b>352</b> (1968), 1                |                                                                                             |
| Willhendersonite   | $\text{KCa}(\text{Si}_3\text{Al}_3)\text{O}_{12} \cdot 5\text{H}_2\text{O}$                                                                                                                                  | A | 1981-030  | Italy        | <i>American Mineralogist</i> <b>69</b> (1984), 186                                            | <i>Zeolites</i> <b>19</b> (1997), 75                                                        |

|                 |                                                                                                                                                                    |    |           |                |                                                                                                                                        |                                                                                                 |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----------|----------------|----------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| Willyamite      | CoSbS                                                                                                                                                              | Rd | 1970 s.p. | Australia      | <i>Proceedings of the Royal Society of New South Wales</i> <b>27</b> (1893), 366                                                       | <i>Proceedings of the Australasian Institute of Mining and Metallurgy</i> <b>233</b> (1970), 95 |
| Wiluite         | Ca <sub>19</sub> (Al,Mg) <sub>13</sub> (B,□,Al) <sub>5</sub> (SiO <sub>4</sub> ) <sub>10</sub> (Si <sub>2</sub> O <sub>7</sub> ) <sub>4</sub> (O,OH) <sub>10</sub> | A  | 1997-026  | Russia         | <i>Canadian Mineralogist</i> <b>36</b> (1998), 1301                                                                                    | <i>Zapiski Rossiyskogo Mineralogicheskogo Obshchestva</i> <b>154(6)</b> (2025), 91              |
| Winchite        | □(NaCa)(Mg <sub>4</sub> Al)Si <sub>8</sub> O <sub>22</sub> (OH) <sub>2</sub>                                                                                       | Rd | 2012 s.p. | India          | <i>Transactions of the Mining and Geological Institute of India</i> <b>1</b> (1906), 69                                                | <i>Mineralogical Magazine</i> <b>50</b> (1986), 173                                             |
| Windhoekite     | Ca <sub>2</sub> Fe <sup>3+</sup> <sub>3-x</sub> [Si <sub>8</sub> O <sub>20</sub> ](OH) <sub>4</sub> ·10H <sub>2</sub> O                                            | A  | 2010-083  | Namibia        | <i>European Journal of Mineralogy</i> <b>24</b> (2012), 171                                                                            |                                                                                                 |
| Windmountainite | □Fe <sup>3+</sup> <sub>2</sub> Mg <sub>2</sub> □ <sub>2</sub> Si <sub>8</sub> O <sub>20</sub> (OH) <sub>2</sub> (H <sub>2</sub> O) <sub>4</sub> ·4H <sub>2</sub> O | A  | 2018-130a | USA            | <i>Canadian Mineralogist</i> <b>58</b> (2020), 477                                                                                     |                                                                                                 |
| Winstanleyite   | TiTe <sup>4+</sup> <sub>3</sub> O <sub>8</sub>                                                                                                                     | A  | 1979-001  | USA            | <i>Mineralogical Magazine</i> <b>43</b> (1979), 453                                                                                    | <i>Canadian Mineralogist</i> <b>41</b> (2003), 1469                                             |
| Wiperamingaite  | NaCaFe <sup>3+</sup> Al(PO <sub>4</sub> )F <sub>5</sub> (OH)(H <sub>2</sub> O)                                                                                     | A  | 2023-023  | Australia      | <i>Mineralogical Magazine</i> <b>90</b> (2026), 59                                                                                     |                                                                                                 |
| Wiserite        | Mn <sup>2+</sup> <sub>14</sub> (B <sub>2</sub> O <sub>5</sub> ) <sub>4</sub> (OH) <sub>8</sub> ·(Si,Mg)(O,OH) <sub>4</sub> Cl                                      | G  | 1845      | Switzerland    | Handbuch der Bestimmenden Mineralogie. Braumüller and Seidel, Wien (1845), 493                                                         | <i>American Mineralogist</i> <b>74</b> (1989), 1351                                             |
| Witherite       | Ba(CO <sub>3</sub> )                                                                                                                                               | G  | 1789      | United Kingdom | <i>Bergmannisches Journal</i> <b>1</b> (1789), 369                                                                                     | <i>Physics and Chemistry of Minerals</i> <b>34</b> (2007), 573                                  |
| Wittichenite    | Cu <sub>3</sub> BiS <sub>3</sub>                                                                                                                                   | G  | 1853      | Germany        | Das Mohs'sche Mineralsystem. Gerold, Wien (1853), 118                                                                                  | <i>Acta Crystallographica</i> <b>B29</b> (1973), 2528                                           |
| Wittite         | Pb <sub>8</sub> Bi <sub>10</sub> (S,Se) <sub>23</sub>                                                                                                              | Q  | 1924      | Sweden         | <i>Arkiv för Kemi, Mineralogi och Geologi</i> <b>9</b> (1924), 2                                                                       | <i>American Mineralogist</i> <b>65</b> (1980), 789                                              |
| Witzkeite       | Na <sub>4</sub> K <sub>4</sub> Ca(NO <sub>3</sub> ) <sub>2</sub> (SO <sub>4</sub> ) <sub>4</sub> (H <sub>2</sub> O) <sub>2</sub>                                   | A  | 2011-084  | Chile          | <i>American Mineralogist</i> <b>97</b> (2012), 1783                                                                                    |                                                                                                 |
| Wodegongjjeite  | KCa <sub>3</sub> (Al <sub>7</sub> Si <sub>9</sub> )O <sub>32</sub>                                                                                                 | A  | 2020-036b | China          | <i>Mineralogical Magazine</i> <b>86</b> (2022), 975                                                                                    |                                                                                                 |
| Wodginite       | Mn <sup>2+</sup> Sn <sup>4+</sup> Ta <sub>2</sub> O <sub>8</sub>                                                                                                   | A  | 1967 s.p. | Australia      | <i>Canadian Mineralogist</i> <b>7</b> (1963), 390                                                                                      | <i>Canadian Mineralogist</i> <b>30</b> (1992), 597                                              |
| Wöhlerite       | Na <sub>2</sub> Ca <sub>4</sub> Zr(Nb,Ti)(Si <sub>2</sub> O <sub>7</sub> ) <sub>2</sub> (O,F) <sub>4</sub>                                                         | G  | 1843      | Norway         | <i>Annalen der Physik und Chemie</i> <b>59</b> (1843), 327                                                                             | <i>European Journal of Mineralogy</i> <b>38</b> (2026), 75                                      |
| Wolfeite        | Fe <sup>2+</sup> <sub>2</sub> (PO <sub>4</sub> )(OH)                                                                                                               | G  | 1949      | USA            | <i>American Mineralogist</i> <b>34</b> (1949), 692                                                                                     | <i>Acta Crystallographica</i> <b>C63</b> (2007), i119                                           |
| Wolfsriedite    | Pb[(UO <sub>2</sub> ) <sub>2</sub> (W <sup>6+</sup> Fe <sup>3+</sup> O <sub>7</sub> (OH))](H <sub>2</sub> O) <sub>3</sub>                                          | A  | 2022-048a | Germany        | CNMNC Newsletter 85 - <i>Mineralogical Magazine</i> <b>89</b> (2025), 454; <i>European Journal of Mineralogy</i> <b>37</b> (2025), 337 |                                                                                                 |
| Wollastonite    | CaSiO <sub>3</sub>                                                                                                                                                 | A  | 1962 s.p. | Romania        | <i>Nouveau Dictionnaire d'Histoire Naturelle</i> <b>20</b> (1818), 28                                                                  | <i>Zeitschrift für Kristallographie</i> <b>168</b> (1984), 93                                   |
| Wölsendorfite   | Pb <sub>7</sub> (UO <sub>2</sub> ) <sub>14</sub> O <sub>19</sub> (OH) <sub>4</sub> (H <sub>2</sub> O) <sub>10</sub> ·2H <sub>2</sub> O                             | G  | 1957      | Germany        | <i>Comptes Rendus de l'Académie des Sciences de Paris</i> <b>244</b> (1957), 2942                                                      | <i>American Mineralogist</i> <b>84</b> (1999), 1661                                             |
| Wonesite        | (Na,K,□)(Mg,Fe,Al) <sub>6</sub> (Si,Al) <sub>8</sub> O <sub>20</sub> (OH,F) <sub>4</sub>                                                                           | A  | 1979-007a | USA            | <i>American Mineralogist</i> <b>66</b> (1981), 100                                                                                     | <i>American Mineralogist</i> <b>90</b> (2005), 725                                              |
| Woodallite      | Mg <sub>6</sub> Cr <sub>2</sub> (OH) <sub>16</sub> Cl <sub>2</sub> ·4H <sub>2</sub> O                                                                              | A  | 2000-042  | Australia      | <i>Mineralogical Magazine</i> <b>65</b> (2001), 427                                                                                    | <i>Journal of Geosciences</i> <b>58</b> (2012), 273                                             |
| Woodhouseite    | CaAl <sub>3</sub> (SO <sub>4</sub> )(PO <sub>4</sub> )(OH) <sub>6</sub>                                                                                            | Rd | 1987 s.p. | USA            | <i>American Mineralogist</i> <b>22</b> (1937), 939                                                                                     | <i>Neues Jahrbuch für Mineralogie Abhandlungen</i> <b>185</b> (2009), 313                       |
| Woodruffite     | [Zn <sub>2</sub> (H <sub>2</sub> O) <sub>3</sub> ·H <sub>2</sub> O](Mn <sup>4+</sup> ,Mn <sup>3+</sup> ) <sub>5</sub> O <sub>10</sub>                              | G  | 1953      | USA            | <i>American Mineralogist</i> <b>38</b> (1953), 761                                                                                     | <i>American Mineralogist</i> <b>88</b> (2003), 1697                                             |
| Woodwardite     | (Cu <sub>1-x</sub> Al <sub>x</sub> )(SO <sub>4</sub> ) <sub>x/2</sub> (OH) <sub>2</sub> ·nH <sub>2</sub> O (x < 0.5, n < 3x/2)                                     | G  | 1866      | United Kingdom | <i>Journal of the Chemical Society</i> <b>19</b> (1866), 130                                                                           | <i>Doklady Akademii Nauk SSSR</i> <b>256</b> (1981), 1221                                       |
| Wooldridgeite   | Na <sub>2</sub> CaCu <sup>2+</sup> <sub>2</sub> (P <sub>2</sub> O <sub>7</sub> ) <sub>2</sub> (H <sub>2</sub> O) <sub>8</sub> ·2H <sub>2</sub> O                   | A  | 1997-037  | United Kingdom | <i>Mineralogical Magazine</i> <b>63</b> (1999), 13                                                                                     | <i>Canadian Mineralogist</i> <b>37</b> (1999), 73                                               |
| Wopmayite       | Ca <sub>6</sub> Na <sub>3</sub> □Mn(PO <sub>4</sub> ) <sub>3</sub> (PO <sub>3</sub> OH) <sub>4</sub>                                                               | A  | 2011-093  | Canada         | <i>Canadian Mineralogist</i> <b>51</b> (2013), 93                                                                                      |                                                                                                 |
| Wortupaite      | [Mg(H <sub>2</sub> O) <sub>3</sub> ]Ni <sup>2+</sup> <sub>2</sub> (Te <sup>4+</sup> O <sub>3</sub> ) <sub>3</sub>                                                  | A  | 2022-107  | Australia      | <i>Mineralogical Magazine</i> <b>87</b> (2023), 908                                                                                    |                                                                                                 |
| Wrightite       | K <sub>2</sub> Al <sub>2</sub> O(AsO <sub>4</sub> ) <sub>2</sub>                                                                                                   | A  | 2015-120  | Russia         | <i>Mineralogical Magazine</i> <b>82</b> (2018), 1243                                                                                   |                                                                                                 |
| Wroewolfeite    | Cu <sub>4</sub> (SO <sub>4</sub> )(OH) <sub>6</sub> (H <sub>2</sub> O)·H <sub>2</sub> O                                                                            | A  | 1973-064  | USA            | <i>Mineralogical Magazine</i> <b>40</b> (1975), 1                                                                                      | <i>American Mineralogist</i> <b>70</b> (1985), 1050                                             |

|                 |                                                                                                                                           |    |           |                                  |                                                                                                                                        |                                                                                   |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------|----|-----------|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| Wulfenite       | Pb(MoO <sub>4</sub> )                                                                                                                     | G  | 1845      | Austria                          | Handbuch der Bestimmenden Mineralogie. Braumüller and Seidel, Wien (1845), 504                                                         | <i>Mineralogical Magazine</i> <b>72</b> (2008), 987                               |
| Wulffite        | K <sub>3</sub> NaCu <sub>4</sub> O <sub>2</sub> (SO <sub>4</sub> ) <sub>4</sub>                                                           | A  | 2013-035  | Russia                           | <i>Canadian Mineralogist</i> <b>52</b> (2014), 699                                                                                     |                                                                                   |
| Wülfingite      | Zn(OH) <sub>2</sub>                                                                                                                       | A  | 1983-070  | Germany                          | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1985), 145                                                                          | <i>Zeitschrift für Anorganische und Allgemeine Chemie</i> <b>631</b> (2005), 1247 |
| Wumuite         | KAl <sub>0.33</sub> W <sub>2.67</sub> O <sub>9</sub>                                                                                      | A  | 2017-067a | China                            | <i>European Journal of Mineralogy</i> <b>32</b> (2020), 483                                                                            |                                                                                   |
| Wupatkiite      | CoAl <sub>2</sub> (SO <sub>4</sub> ) <sub>4</sub> (H <sub>2</sub> O) <sub>17</sub> ·5H <sub>2</sub> O                                     | A  | 1994-019  | USA                              | <i>Mineralogical Magazine</i> <b>59</b> (1995), 553                                                                                    |                                                                                   |
| Wurtzite        | ZnS                                                                                                                                       | G  | 1861      | Bolivia                          | <i>Comptes Rendus de l'Académie des Sciences de Paris</i> <b>52</b> (1861), 983                                                        | <i>Acta Crystallographica</i> <b>C45</b> (1989), 1867                             |
| Wüstite         | FeO                                                                                                                                       | G  | 1927      | Germany                          | <i>Zeitschrift für anorganische und allgemeine Chemie</i> <b>166</b> (1927), 113                                                       | <i>Acta Crystallographica</i> <b>B38</b> (1982), 1451                             |
| Wuyanzhiite     | Cu <sub>2</sub> S                                                                                                                         | A  | 2017-081  | China                            | <i>American Mineralogist</i> <b>111</b> (2026), 736                                                                                    |                                                                                   |
| Wyartite        | CaU <sup>5+</sup> (UO <sub>2</sub> ) <sub>2</sub> (CO <sub>3</sub> )O <sub>4</sub> (OH)(H <sub>2</sub> O) <sub>5</sub> ·2H <sub>2</sub> O | A  | 1962 s.p. | Democratic Republic of the Congo | <i>Bulletin de la Société Française de Minéralogie et de Cristallographie</i> <b>82</b> (1959), 80                                     | <i>American Mineralogist</i> <b>84</b> (1999), 1456                               |
| Wycheproofite   | NaAlZr(PO <sub>4</sub> ) <sub>2</sub> (OH) <sub>2</sub> (H <sub>2</sub> O)                                                                | A  | 1993-024  | Australia                        | <i>Mineralogical Magazine</i> <b>58</b> (1994), 635                                                                                    | <i>European Journal of Mineralogy</i> <b>15</b> (2003), 1029                      |
| Wyllieite       | NaNaMn(Fe <sup>2+</sup> Al)(PO <sub>4</sub> ) <sub>3</sub>                                                                                | A  | 1972-015  | USA                              | <i>Mineralogical Record</i> <b>4</b> (1973), 131                                                                                       | <i>Canadian Mineralogist</i> <b>54</b> (2016), 1087                               |
| Xanthiosite     | Ni <sub>3</sub> (AsO <sub>4</sub> ) <sub>2</sub>                                                                                          | Rd | 1965 s.p. | Germany                          | <i>Annales des Mines</i> <b>15</b> (1869), 405                                                                                         | <i>Acta Crystallographica</i> <b>B47</b> (1991), 457                              |
| Xanthoconite    | Ag <sub>3</sub> AsS <sub>3</sub>                                                                                                          | G  | 1840      | Germany                          | <i>Journal für Praktische Chemie</i> <b>20</b> (1840), 67                                                                              | <i>Acta Crystallographica</i> <b>B24</b> (1968), 77                               |
| Xanthoxenite    | Ca <sub>4</sub> Fe <sup>3+</sup> <sub>2</sub> (PO <sub>4</sub> ) <sub>4</sub> (OH) <sub>2</sub> ·3H <sub>2</sub> O                        | Rd | 1975-004a | USA                              | <i>Mineralogical Magazine</i> <b>42</b> (1978), 309                                                                                    |                                                                                   |
| Xenophyllite    | Na <sub>4</sub> Fe <sub>7</sub> (PO <sub>4</sub> ) <sub>6</sub>                                                                           | A  | 2006-006  | Ukraine (meteorite)              | <i>Minerals</i> <b>10</b> (2020), 300                                                                                                  | <i>Chemical Communications</i> <b>55</b> (2019), 9043                             |
| Xenotime-(Gd)   | Gd(PO <sub>4</sub> )                                                                                                                      | A  | 2023-091  | Slovakia                         | <i>Mineralogical Magazine</i> <b>88</b> (2024), 613                                                                                    |                                                                                   |
| Xenotime-(Y)    | Y(PO <sub>4</sub> )                                                                                                                       | Rn | 1987 s.p. | Norway                           | Traité Élémentaire de Minéralogie, 2nd ed. Verdière, Paris (1832), 552                                                                 | <i>Mineralogical Magazine</i> <b>88</b> (2024), 682                               |
| Xenotime-(Yb)   | Yb(PO <sub>4</sub> )                                                                                                                      | A  | 1998-049  | Canada                           | <i>Canadian Mineralogist</i> <b>37</b> (1999), 1303                                                                                    | <i>American Mineralogist</i> <b>80</b> (1995), 21                                 |
| Xiangjiangite   | Fe <sup>3+</sup> (UO <sub>2</sub> ) <sub>4</sub> (PO <sub>4</sub> ) <sub>2</sub> (SO <sub>4</sub> ) <sub>2</sub> (OH)·22H <sub>2</sub> O  | A  | 1982 s.p. | China                            | <i>Scientia Geologica Sinica</i> <b>2</b> (1978), 183                                                                                  |                                                                                   |
| Xianhuaite-(Ce) | K <sub>2</sub> CeNb <sub>5</sub> O <sub>15</sub>                                                                                          | A  | 2024-091  | China                            | CNMNC Newsletter 84 - <i>Mineralogical Magazine</i> <b>89</b> (2025), 298; <i>European Journal of Mineralogy</i> <b>37</b> (2025), 249 |                                                                                   |
| Xianhuaite-(La) | K <sub>2</sub> LaNb <sub>5</sub> O <sub>15</sub>                                                                                          | A  | 2025-087  | China                            | CNMNC Newsletter 90 - <i>Mineralogical Magazine</i> <b>90</b> (2026), xxx; <i>European Journal of Mineralogy</i> <b>38</b> (2026), 231 |                                                                                   |
| Xieite          | FeCr <sub>2</sub> O <sub>4</sub>                                                                                                          | A  | 2007-056  | China (meteorite)                | <i>Chinese Science Bulletin</i> <b>53</b> (2008), 3341                                                                                 | <i>Geochimica et Cosmochimica Acta</i> <b>67</b> (2003), 3937                     |
| Xiexiandeite    | SiO <sub>2</sub>                                                                                                                          | A  | 2025-006  | Sweden (meteorite)               | CNMNC Newsletter 85 - <i>Mineralogical Magazine</i> <b>89</b> (2025), 454; <i>European Journal of Mineralogy</i> <b>37</b> (2025), 337 |                                                                                   |
| Xifengite       | Fe <sub>5</sub> Si <sub>3</sub>                                                                                                           | A  | 1983-086  | China (meteorite)                | <i>Acta Petrologica Mineralogica et Analytica</i> <b>3</b> (1984), 231                                                                 | <i>Solid State Sciences</i> <b>6</b> (2004), 673                                  |
| Xilingolite     | Pb <sub>3</sub> Bi <sub>2</sub> S <sub>6</sub>                                                                                            | A  | 1982-024  | China                            | <i>Acta Petrologica Mineralogica et Analytica</i> <b>1</b> (1982), 14                                                                  | <i>Canadian Mineralogist</i> <b>39</b> (2001), 1653                               |
| Ximengite       | Bi(PO <sub>4</sub> )                                                                                                                      | A  | 1985-004  | China                            | <i>Acta Mineralogica Sinica</i> <b>9</b> (1989), 15                                                                                    | <i>Zeitschrift für Kristallographie</i> <b>117</b> (1962), 371                    |
| Xingzhongite    | Pb <sup>2+</sup> Ir <sup>3+</sup> <sub>2</sub> S <sub>4</sub>                                                                             | Q  | 1980 s.p. | China                            | <i>Acta Geologica Sinica</i> <b>2</b> (1974), 202                                                                                      | <i>Acta Geologica Sinica</i> <b>4</b> (1978), 326                                 |

|                    |                                                                                                                                            |   |           |            |                                                                                                                                      |                                                                      |
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| Xitieshanite       | $\text{Fe}^{3+}(\text{SO}_4)\text{Cl}(\text{H}_2\text{O})_4 \cdot 2\text{H}_2\text{O}$                                                     | A | 1982-044  | China      | <i>Acta Mineralogica Sinica</i> <b>2</b> (1982), 241                                                                                 | <i>Kexue Tongbao</i> <b>33</b> (1988), 502                           |
| Xocolatlite        | $\text{Ca}_2\text{Mn}^{4+}_2\text{Te}^{6+}_2\text{O}_{12} \cdot \text{H}_2\text{O}$                                                        | A | 2007-020  | Mexico     | <i>American Mineralogist</i> <b>93</b> (2008), 1911                                                                                  |                                                                      |
| Xocomecatlite      | $\text{Cu}_3(\text{Te}^{6+}\text{O}_4)(\text{OH})_4$                                                                                       | A | 1974-048  | Mexico     | <i>Mineralogical Magazine</i> <b>40</b> (1975), 221                                                                                  | <i>Transition Metal Chemistry</i> <b>34</b> (2009), 23               |
| Xonotlite          | $\text{Ca}_6\text{Si}_6\text{O}_{17}(\text{OH})_2$                                                                                         | G | 1866      | Mexico     | <i>Zeitschrift der Deutschen Geologischen Gesellschaft</i> <b>18</b> (1866), 33                                                      | <i>Zeitschrift für Kristallographie</i> <b>216</b> (2001), 396       |
| Xuite              | $\text{Ca}_3\text{Fe}_2[(\text{AlO}_3(\text{OH}))_3]$                                                                                      | A | 2018-135a | USA        | <i>American Mineralogist</i> <b>107</b> (2022), 930                                                                                  |                                                                      |
| Xuwenyuanite       | $\text{Ag}_9\text{Fe}^{3+}\text{Te}_2\text{S}_4$                                                                                           | A | 2021-080  | China      | CNMNC Newsletter 64 - <i>Mineralogical Magazine</i> <b>86</b> (2022), 178; <i>European Journal of Mineralogy</i> <b>34</b> (2022), 1 |                                                                      |
| Yafsoanite         | $\text{Ca}_3\text{Te}^{6+}_2(\text{ZnO}_4)_3$                                                                                              | A | 1981-022  | Russia     | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>111</b> (1982), 118                                                    | <i>American Mineralogist</i> <b>95</b> (2010), 933                   |
| Yagiite            | $\text{NaMg}_2(\text{AlMg}_2\text{Si}_{12})\text{O}_{30}$                                                                                  | A | 1968-020  | Spain      | <i>American Mineralogist</i> <b>54</b> (1969), 14                                                                                    |                                                                      |
| Yakhontovite       | $(\text{Ca}, \text{Na}, \text{K})_{0.2}(\text{Cu}, \text{Fe}, \text{Mg})_2\text{Si}_4\text{O}_{10}(\text{OH})_2 \cdot 3\text{H}_2\text{O}$ | A | 1984-032a | Russia     | <i>Mineralogicheskij Zhurnal</i> <b>8</b> (1986), 80                                                                                 |                                                                      |
| Yakovenchukite-(Y) | $\text{K}_3\text{NaCaY}_2\text{Si}_{12}\text{O}_{30}(\text{H}_2\text{O})_4$                                                                | A | 2006-002  | Russia     | <i>American Mineralogist</i> <b>92</b> (2007), 1525                                                                                  |                                                                      |
| Yakubovichite      | $\text{CaNi}_2\text{Fe}^{3+}(\text{PO}_4)_3$                                                                                               | A | 2020-094  | Jordan     | <i>American Mineralogist</i> <b>108</b> (2023), 2142                                                                                 |                                                                      |
| Yamhamelachite     | $\text{KCrP}_2\text{O}_7$                                                                                                                  | A | 2023-103  | Israel     | <i>Mineralogical Magazine</i> <b>89</b> (2025), 664                                                                                  |                                                                      |
| Yancowinnaite      | $\text{PbCuAl}(\text{AsO}_4)_2\text{OH}(\text{H}_2\text{O})$                                                                               | A | 2010-030  | Australia  | <i>Australian Journal of Mineralogy</i> <b>17</b> (2015), 73                                                                         |                                                                      |
| Yangite            | $\text{PbMnSi}_3\text{O}_8 \cdot \text{H}_2\text{O}$                                                                                       | A | 2012-052  | Namibia    | <i>American Mineralogist</i> <b>101</b> (2016), 2539                                                                                 |                                                                      |
| Yangzhumingite     | $\text{KMg}_{2.5}\text{Si}_4\text{O}_{10}\text{F}_2$                                                                                       | A | 2009-017  | China      | <i>European Journal of Mineralogy</i> <b>23</b> (2011), 467                                                                          | <i>Lithos</i> <b>210-211</b> (2014), 1                               |
| Yanomamite         | $\text{In}(\text{AsO}_4)(\text{H}_2\text{O})_2$                                                                                            | A | 1990-052  | Brazil     | <i>European Journal of Mineralogy</i> <b>6</b> (1994), 245                                                                           | <i>Journal of Chemical Crystallography</i> <b>31</b> (2002), 45      |
| Yarlongite         | $(\text{Cr}_4\text{Fe}_4\text{Ni})\text{C}_4$                                                                                              | A | 2007-035  | China      | <i>Acta Geologica Sinica</i> <b>83</b> (2008), 52                                                                                    | <i>Science in China, Ser. D</i> <b>48</b> (2005), 338                |
| Yaroshevskite      | $\text{Cu}_9\text{O}_2(\text{VO}_4)_4\text{Cl}_2$                                                                                          | A | 2012-003  | Russia     | <i>Mineralogical Magazine</i> <b>77</b> (2013), 107                                                                                  |                                                                      |
| Yaroslavite        | $\text{Ca}_3\text{Al}_2\text{F}_{10}(\text{OH})_2 \cdot \text{H}_2\text{O}$                                                                | A | 1968 s.p. | Russia     | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>95</b> (1966), 39                                                      |                                                                      |
| Yarrowite          | $\text{Cu}_9\text{S}_8$                                                                                                                    | A | 1978-022  | Canada     | <i>Canadian Mineralogist</i> <b>18</b> (1980), 511                                                                                   |                                                                      |
| Yarzhemskiite      | $\text{K}[\text{B}_5\text{O}_7(\text{OH})_2](\text{H}_2\text{O})$                                                                          | A | 2018-019  | Kazakhstan | <i>Mineralogical Magazine</i> <b>84</b> (2020), 335                                                                                  |                                                                      |
| Yavapaiite         | $\text{KFe}^{3+}(\text{SO}_4)_2$                                                                                                           | A | 1962 s.p. | USA        | <i>American Mineralogist</i> <b>44</b> (1959), 1105                                                                                  | <i>American Mineralogist</i> <b>56</b> (1971), 1917                  |
| Yazganite          | $\square\text{NaMgFe}^{3+}_2(\text{AsO}_4)_3 \cdot \text{H}_2\text{O}$                                                                     | A | 2003-033  | Turkey     | <i>European Journal of Mineralogy</i> <b>17</b> (2005), 367                                                                          |                                                                      |
| Yeatmanite         | $\text{Zn}_6\text{Mn}^{2+}_9\text{Sb}^{5+}_2\text{O}_{12}(\text{SiO}_4)_4$                                                                 | G | 1938      | USA        | <i>American Mineralogist</i> <b>23</b> (1938), 527                                                                                   | <i>Mineralogical Journal</i> <b>13</b> (1986), 53                    |
| Yecoraite          | $\text{Fe}^{3+}_3\text{Bi}_5\text{O}_9(\text{Te}^{4+}\text{O}_3)(\text{Te}^{6+}\text{O}_4)_2 \cdot 9\text{H}_2\text{O}$                    | A | 1983-062  | Mexico     | <i>Boletín de la Sociedad Mexicana de Mineralogía</i> <b>1</b> (1985), 10                                                            |                                                                      |
| Yedlinite          | $\text{Pb}_6\text{Cr}(\text{Cl}, \text{OH})_6(\text{OH}, \text{O})_8$                                                                      | A | 1974-001  | USA        | <i>American Mineralogist</i> <b>59</b> (1974), 1157                                                                                  | <i>American Mineralogist</i> <b>59</b> (1974), 1160                  |
| Ye'elimite         | $\text{Ca}_4\text{Al}_6\text{O}_{12}(\text{SO}_4)$                                                                                         | A | 1984-052  | Israel     | <i>Geological Survey of Israel, Current Research</i> (1984), 1                                                                       | <i>Journal of the American Ceramic Society</i> <b>97</b> (2014), 892 |
| Yegorovite         | $\text{Na}_4[\text{Si}_2\text{O}_4(\text{OH})_2]_2(\text{H}_2\text{O})_7$                                                                  | A | 2008-033  | Russia     | <i>Zapiski Rossiyskogo Mineralogicheskogo Obshchestva</i> <b>138(3)</b> (2009), 82                                                   | <i>Doklady Earth Sciences</i> <b>427</b> (2009), 814                 |
| Yeite              | TiSi                                                                                                                                       | A | 2022-079  | Israel     | <i>Materials</i> <b>16</b> (2023), 7578                                                                                              |                                                                      |
| Yellowcatite       | $\text{KNaFe}^{3+}_2(\text{Se}^{4+}\text{O}_3)_2(\text{V}^{5+}_2\text{O}_7)(\text{H}_2\text{O})_7$                                         | A | 2024-030  | USA        | <i>Mineralogical Magazine</i> <b>89</b> (2025), 421                                                                                  |                                                                      |

|                     |                                                                                                                                                                                                                                               |    |           |                |                                                                                                                                         |                                                                                             |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----------|----------------|-----------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| Yeomanite           | Pb <sub>2</sub> O(OH)Cl                                                                                                                                                                                                                       | A  | 2013-024  | United Kingdom | <i>Mineralogical Magazine</i> <b>79</b> (2015), 1203                                                                                    |                                                                                             |
| Yimengite           | K[Ti <sub>3</sub> Cr <sub>5</sub> Fe <sup>3+</sup> <sub>2</sub> Mg <sub>2</sub> ]O <sub>19</sub>                                                                                                                                              | Rd | 2020 s.p. | China          | <i>Chinese Science Bulletin [Kexue Tongbao]</i> <b>28</b> (1983), 932                                                                   | <i>Scientia Geologica Sinica</i> <b>B28</b> (1985), 882                                     |
| Yingjiangite        | K <sub>2</sub> Ca(UO <sub>2</sub> ) <sub>7</sub> (PO <sub>4</sub> ) <sub>4</sub> (OH) <sub>6</sub> ·6H <sub>2</sub> O                                                                                                                         | A  | 1989-001  | China          | <i>Acta Mineralogica Sinica</i> <b>10</b> (1990), 102                                                                                   | <i>Journal of Raman Spectroscopy</i> <b>39</b> (2008), 495                                  |
| Yixunite            | Pt <sub>3</sub> In                                                                                                                                                                                                                            | A  | 1995-042  | China          | <i>Acta Geologica Sinica</i> <b>71</b> (1997), 332                                                                                      | <i>Acta Geologica Sinica</i> <b>48</b> (1974), 202                                          |
| Yoderite            | (MgAl <sub>3</sub> )(MgAl)Al <sub>2</sub> O <sub>2</sub> (SiO <sub>4</sub> ) <sub>4</sub> (OH) <sub>2</sub>                                                                                                                                   | A  | 1962 s.p. | Tanzania       | <i>Mineralogical Magazine</i> <b>32</b> (1959), 282                                                                                     | <i>Periodico di Mineralogia</i> <b>90</b> (2021), 371                                       |
| Yofortierite        | Mn <sup>2+</sup> <sub>5</sub> Si <sub>8</sub> O <sub>20</sub> (OH) <sub>2</sub> ·7H <sub>2</sub> O                                                                                                                                            | A  | 1974-045  | Canada         | <i>Canadian Mineralogist</i> <b>13</b> (1975), 68                                                                                       | <i>Canadian Mineralogist</i> <b>51</b> (2013), 243                                          |
| Yoshimuraite        | Ba <sub>4</sub> Mn <sup>2+</sup> <sub>4</sub> Ti <sub>2</sub> (Si <sub>2</sub> O <sub>7</sub> ) <sub>2</sub> (PO <sub>4</sub> ) <sub>2</sub> O <sub>2</sub> (OH) <sub>2</sub>                                                                 | Rd | 2016 s.p. | Japan          | <i>Mineralogical Journal</i> <b>3</b> (1961), 156                                                                                       | <i>Canadian Mineralogist</i> <b>52</b> (2014), 569                                          |
| Yoshiokaite         | Ca <sub>1-x</sub> (Al,Si) <sub>2</sub> O <sub>4</sub>                                                                                                                                                                                         | A  | 1989-043  | The Moon       | <i>American Mineralogist</i> <b>75</b> (1990), 676                                                                                      | <i>American Mineralogist</i> <b>75</b> (1990), 1186                                         |
| Yttriaite-(Y)       | Y <sub>2</sub> O <sub>3</sub>                                                                                                                                                                                                                 | A  | 2010-039  | Russia         | <i>American Mineralogist</i> <b>96</b> (2011), 1166                                                                                     |                                                                                             |
| Yttrialite-(Y)      | Y <sub>2</sub> Si <sub>2</sub> O <sub>7</sub>                                                                                                                                                                                                 | Rn | 1987 s.p. | USA            | <i>American Journal of Science</i> <b>138</b> (1889), 477                                                                               | <i>Powder Diffraction</i> <b>23</b> (2008), 20                                              |
| Yttrocolumbite-(Y)  | (Y,U,Fe <sup>2+</sup> )(Nb,Ta)O <sub>4</sub>                                                                                                                                                                                                  | Q  | 1987 s.p. | Mozambique     | A System of Mineralogy. Durrie & Peck and Herrick & Noyes, New Haven (1837), 370                                                        | <i>Memorias da Academia das Ciencias de Lisboa, Classe de Ciencias</i> <b>1</b> (1937), 369 |
| Yttrocrasite-(Y)    | (Y,Th,Ca,U)(Ti,Fe) <sub>2</sub> (O,OH) <sub>6</sub>                                                                                                                                                                                           | Q  | 1987 s.p. | USA            | <i>American Journal of Science</i> <b>22</b> (1906), 515                                                                                |                                                                                             |
| Yttrotantalite-(Y)  | (Y,U,Fe <sup>2+</sup> )(Ta,Nb)(O,OH) <sub>4</sub>                                                                                                                                                                                             | Q  | 2022 s.p. | Sweden         | <i>Kongliga Svenska Vetenskaps-Akademiens Handlingar</i> <b>23</b> (1802), 68                                                           | <i>Acta Crystallographica</i> <b>23</b> (1967), 939                                         |
| Yttrotungstite-(Ce) | CeW <sub>2</sub> O <sub>7</sub> (OH)(H <sub>2</sub> O)                                                                                                                                                                                        | Rn | 1987 s.p. | Uganda         | <i>Bulletin de la Société Géologique de Finlande</i> <b>42</b> (1970), 223                                                              |                                                                                             |
| Yttrotungstite-(Nd) | NdW <sub>2</sub> O <sub>7</sub> (OH)(H <sub>2</sub> O)                                                                                                                                                                                        | A  | 2023-064  | Rwanda         | CNMNC Newsletter 76 - <i>Mineralogical Magazine</i> <b>88</b> (2024), 105; <i>European Journal of Mineralogy</i> <b>35</b> (2023), 1073 |                                                                                             |
| Yttrotungstite-(Y)  | YW <sub>2</sub> O <sub>7</sub> (OH)(H <sub>2</sub> O)                                                                                                                                                                                         | A  | 1987 s.p. | Malaysia       | <i>Colonial Geology and Mineral Resources</i> <b>1</b> (1950), 50                                                                       | <i>Mineralogical Magazine</i> <b>38</b> (1971), 261                                         |
| Yuanfuliite         | Mg(Fe <sup>3+</sup> ,Al)O(BO <sub>3</sub> )                                                                                                                                                                                                   | A  | 1994-001  | China          | <i>Acta Petrologica et Mineralogica</i> <b>13</b> (1994), 328                                                                           | <i>European Journal of Mineralogy</i> <b>11</b> (1999), 483                                 |
| Yuanjiangite        | AuSn                                                                                                                                                                                                                                          | A  | 1993-028  | China          | <i>Acta Petrologica et Mineralogica</i> <b>13</b> (1994), 232                                                                           |                                                                                             |
| Yuchuanite-(Y)      | Y <sub>2</sub> (CO <sub>3</sub> ) <sub>3</sub> (H <sub>2</sub> O)                                                                                                                                                                             | A  | 2022-120  | China          | <i>American Mineralogist</i> <b>109</b> (2024), 599                                                                                     |                                                                                             |
| Yugawaralite        | Ca(Si <sub>6</sub> Al <sub>2</sub> )O <sub>16</sub> ·4H <sub>2</sub> O                                                                                                                                                                        | A  | 1997 s.p. | Japan          | <i>Science Reports of the Yokohama National University, ser. II</i> <b>1</b> (1952), 69                                                 | <i>Mineralogical Magazine</i> <b>66</b> (2002), 409                                         |
| Yukonite            | Ca <sub>2</sub> Fe <sup>3+</sup> <sub>3</sub> (AsO <sub>4</sub> ) <sub>3</sub> (OH) <sub>4</sub> ·4H <sub>2</sub> O                                                                                                                           | G  | 1913      | Canada         | <i>Transactions of the Royal Society of Canada, Ser. III</i> <b>7</b> (1913), 13                                                        | <i>Canadian Mineralogist</i> <b>47</b> (2009), 39                                           |
| Yuksporite          | K <sub>4</sub> (Ca,Na) <sub>14</sub> (Sr,Ba) <sub>2</sub> (□,Mn,Fe)(Ti,Nb) <sub>4</sub> (O,OH) <sub>4</sub> (Si <sub>6</sub> O <sub>17</sub> ) <sub>2</sub> (Si <sub>2</sub> O <sub>7</sub> ) <sub>3</sub> (H <sub>2</sub> O,OH) <sub>3</sub> | G  | 1923      | Russia         | <i>Transactions of the Northern Scientific and Economic Expedition</i> <b>16</b> (1923), 16                                             | <i>American Mineralogist</i> <b>89</b> (2004), 1561                                         |
| Yulinite            | SrNb <sub>2</sub> O <sub>6</sub>                                                                                                                                                                                                              | A  | 2025-096  | China          | CNMNC Newsletter 90 - <i>Mineralogical Magazine</i> <b>90</b> (2026), xxx; <i>European Journal of Mineralogy</i> <b>38</b> (2026), 231  |                                                                                             |
| Yunhaoite           | K <sub>2</sub> (MoO <sub>4</sub> )                                                                                                                                                                                                            | A  | 2025-040  | USA            | CNMNC Newsletter 87 - <i>Mineralogical Magazine</i> <b>89</b> (2025), 706; <i>European Journal of Mineralogy</i> <b>37</b> (2025), 695  |                                                                                             |
| Yurgensonite        | K <sub>2</sub> SnTiO <sub>2</sub> (AsO <sub>4</sub> ) <sub>2</sub>                                                                                                                                                                            | A  | 2019-059  | Russia         | <i>Mineralogical Magazine</i> <b>85</b> (2021), 698                                                                                     |                                                                                             |
| Yurmarinite         | Na <sub>7</sub> (Fe <sup>3+</sup> ,Mg,Cu) <sub>4</sub> (AsO <sub>4</sub> ) <sub>6</sub>                                                                                                                                                       | A  | 2013-033  | Russia         | <i>Mineralogical Magazine</i> <b>78</b> (2014), 905                                                                                     |                                                                                             |
| Yushkinite          | (Mg,Al)(OH) <sub>2</sub> VS <sub>2</sub>                                                                                                                                                                                                      | A  | 1983-050  | Russia         | <i>Mineralogicheskij Zhurnal</i> <b>6</b> (1984), 91                                                                                    | <i>Doklady Earth Sciences</i> <b>491</b> (2020), 210                                        |

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| Yusupovite   | $\text{Na}_2\text{Zr}(\text{Si}_6\text{O}_{15})(\text{H}_2\text{O})_3$                                    | A | 2014-022  | Tajikistan                                | <i>American Mineralogist</i> <b>100</b> (2015), 1502                                                                                    |                                                                                             |
| Yuzuxiangite | $\text{Sr}_3\text{Fe}^{3+}(\text{Si}_2\text{O}_6)_2(\text{OH})(\text{H}_2\text{O})_3$                     | A | 2020-084  | South Africa                              | <i>Acta Mineralogica Sinica</i> <b>44</b> (2024), 630                                                                                   |                                                                                             |
| Yvonite      | $\text{Cu}(\text{AsO}_3\text{OH})(\text{H}_2\text{O}) \cdot \text{H}_2\text{O}$                           | A | 1995-012  | France                                    | <i>American Mineralogist</i> <b>83</b> (1998), 383                                                                                      |                                                                                             |
| Żabińskiite  | $\text{Ca}[\text{Al}_{0.5}(\text{Ta}, \text{Nb})_{0.5}]\text{O}(\text{SiO}_4)$                            | A | 2015-033  | Poland                                    | <i>Mineralogical Magazine</i> <b>81</b> (2017), 591                                                                                     |                                                                                             |
| Zabuyelite   | $\text{Li}_2(\text{CO}_3)$                                                                                | A | 1985-018  | China                                     | <i>Acta Mineralogica Sinica</i> <b>7</b> (1987), 221                                                                                    | <i>Zeitschrift für Kristallographie</i> <b>150</b> (1979), 133                              |
| Zaccagnaite  | $\text{Zn}_4\text{Al}_2(\text{OH})_{12}(\text{CO}_3) \cdot 3\text{H}_2\text{O}$                           | A | 1997-019  | Italy                                     | <i>American Mineralogist</i> <b>86</b> (2001), 1293                                                                                     | <i>American Mineralogist</i> <b>97</b> (2012), 513                                          |
| Zaccariniite | $\text{RhNiAs}$                                                                                           | A | 2011-086  | Dominican Republic                        | <i>Canadian Mineralogist</i> <b>50</b> (2012), 1321                                                                                     | <i>Minerals</i> <b>12</b> (2022), 98                                                        |
| Zadovite     | $\text{BaCa}_6[(\text{SiO}_4)(\text{PO}_4)](\text{PO}_4)_2\text{F}$                                       | A | 2013-031  | Israel                                    | <i>Mineralogical Magazine</i> <b>79</b> (2015), 1073                                                                                    |                                                                                             |
| Zagamiite    | $\text{CaAl}_2\text{Si}_{3.5}\text{O}_{11}$                                                               | A | 2015-022a | Nigeria (meteorite) / Morocco (meteorite) | <i>Minerals</i> <b>14</b> (2024), 18                                                                                                    |                                                                                             |
| Zaherite     | $\text{Al}_{12}(\text{SO}_4)_5(\text{OH})_{26} \cdot 20\text{H}_2\text{O}$                                | A | 1977-002  | Pakistan                                  | <i>American Mineralogist</i> <b>62</b> (1977), 1125                                                                                     | <i>Mineralogical Magazine</i> <b>48</b> (1984), 131                                         |
| Zairite      | $\text{BiFe}^{3+}_3(\text{PO}_4)_2(\text{OH})_6$                                                          | A | 1975-018  | Democratic Republic of the Congo          | <i>Bulletin de la Société Française de Minéralogie et de Cristallographie</i> <b>98</b> (1975), 351                                     | <i>Journal of Mineralogical and Petrological Sciences</i> <b>116</b> (2021), 104            |
| Zakharovite  | $\text{Na}_4\text{Mn}^{2+}_5\text{Si}_{10}\text{O}_{24}(\text{OH})_6 \cdot 6\text{H}_2\text{O}$           | A | 1981-049  | Russia                                    | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>111</b> (1982), 491                                                       |                                                                                             |
| Zálesiite    | $\text{CaCu}_6(\text{AsO}_4)_2(\text{AsO}_3\text{OH})(\text{OH})_6(\text{H}_2\text{O})_3$                 | A | 1997-009  | Czech Republic                            | <i>Neues Jahrbuch für Mineralogie Abhandlungen</i> <b>175</b> (1999), 105                                                               | <i>Acta Crystallographica</i> <b>C41</b> (1985), 161                                        |
| Zanazziite   | $\text{Ca}_2\text{Mg}_5\text{Be}_4(\text{PO}_4)_6(\text{OH})_4(\text{H}_2\text{O})_6$                     | A | 1986-054  | Brazil                                    | <i>Mineralogical Record</i> <b>21</b> (1990), 413                                                                                       | <i>Crystallography Reports</i> <b>54</b> (2009), 568                                        |
| Zanelliite   | $\text{PbCu}_9[\text{AsO}_{3.5}(\text{OH})_{0.5}]_2(\text{AsO}_4)_2(\text{OH})_9(\text{H}_2\text{O})_3$   | A | 2024-061  | Switzerland                               | CNMNC Newsletter 82 - <i>Mineralogical Magazine</i> <b>88</b> (2024), 804; <i>European Journal of Mineralogy</i> <b>36</b> (2024), 1005 | <a href="https://doi.org/10.1180/mgm.2025.10164">https://doi.org/10.1180/mgm.2025.10164</a> |
| Zangboite    | $\text{TiFeSi}_2$                                                                                         | A | 2007-036  | China                                     | <i>Canadian Mineralogist</i> <b>47</b> (2009), 1265                                                                                     |                                                                                             |
| Zapatalite   | $\text{Cu}_3\text{Al}_4(\text{PO}_4)_3(\text{OH})_9 \cdot 4\text{H}_2\text{O}$                            | A | 1971-023  | Mexico                                    | <i>Mineralogical Magazine</i> <b>38</b> (1972), 541                                                                                     |                                                                                             |
| Zaratite     | $\text{Ni}_3(\text{CO}_3)(\text{OH})_4 \cdot 4\text{H}_2\text{O}$                                         | Q | 1851      | Spain                                     | <i>Revista Minera</i> <b>1</b> (1851), 302                                                                                              | <i>European Journal of Mineralogy</i> <b>25</b> (2013), 995                                 |
| Zavaliáite   | $\text{Mn}^{2+}_3(\text{PO}_4)_2$                                                                         | A | 2011-012  | Argentina                                 | <i>Canadian Mineralogist</i> <b>50</b> (2012), 1445                                                                                     |                                                                                             |
| Zavaritskite | $\text{BiOF}$                                                                                             | A | 1967 s.p. | Russia                                    | <i>Doklady Akademii Nauk SSSR</i> <b>146</b> (1962), 680                                                                                | <i>Acta Chemica Scandinavica</i> <b>18</b> (1964), 1823                                     |
| Zavyalovite  | $\text{Ag}_2\text{TeS}_3$                                                                                 | A | 2024-096  | Russia                                    | CNMNC Newsletter 85 - <i>Mineralogical Magazine</i> <b>89</b> (2025), 454; <i>European Journal of Mineralogy</i> <b>37</b> (2025), 337  | <a href="https://doi.org/10.1180/mgm.2025.10142">https://doi.org/10.1180/mgm.2025.10142</a> |
| Zaykovite    | $\text{Rh}_3\text{Se}_4$                                                                                  | A | 2019-084  | Russia                                    | <i>Mineralogical Magazine</i> <b>87</b> (2023), 118                                                                                     |                                                                                             |
| Zdeněkite    | $\text{NaPbCu}_5(\text{AsO}_4)_4\text{Cl}(\text{H}_2\text{O})_5$                                          | A | 1992-037  | France                                    | <i>European Journal of Mineralogy</i> <b>7</b> (1995), 553                                                                              | <i>Crystallography Reports</i> <b>48</b> (2003), 939                                        |
| Zektzerite   | $\text{NaLiZrSi}_6\text{O}_{15}$                                                                          | A | 1976-034  | USA                                       | <i>American Mineralogist</i> <b>62</b> (1977), 416                                                                                      | <i>Physics and Chemistry of Minerals</i> <b>42</b> (2015), 747                              |
| Zellerite    | $\text{Ca}(\text{UO}_2)(\text{CO}_3)_2 \cdot 5\text{H}_2\text{O}$                                         | A | 1965-031  | USA                                       | <i>American Mineralogist</i> <b>51</b> (1966), 1567                                                                                     | <i>Journal of Raman Spectroscopy</i> <b>39</b> (2008), 582                                  |
| Zemannite    | $\text{Mg}_{0.5}\text{ZnFe}^{3+}(\text{Te}^{4+}\text{O}_3)_3(\text{H}_2\text{O})_n$ $[3 \leq n \leq 4.5]$ | A | 1968-009  | Mexico                                    | <i>Canadian Mineralogist</i> <b>10</b> (1969), 139                                                                                      | <i>Mineralogy and Petrology</i> <b>117</b> (2023), 117                                      |
| Zemkorite    | $\text{Na}_2\text{Ca}(\text{CO}_3)_2$                                                                     | A | 1985-041  | Russia                                    | <i>Doklady Akademii Nauk SSSR</i> <b>301</b> (1988), 188                                                                                | <i>American Mineralogist</i> <b>87</b> (2002), 1384                                         |

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| Zenzénite           | $\text{Pb}_3\text{Fe}^{3+}_4\text{Mn}^{4+}_3\text{O}_{15}$                                                               | A  | 1990-031  | Sweden         | <i>Canadian Mineralogist</i> <b>29</b> (1991), 347                                                                                 |                                                                                   |
| Zeophyllite         | $\text{Ca}_{13}\text{Si}_{10}\text{O}_{28}(\text{OH})_2\text{F}_8(\text{H}_2\text{O})_6$                                 | G  | 1902      | Czech Republic | <i>Sitzungsberichte der Akademie der Wissenschaften in Wien, Mathematisch-Naturwissenschaftliche Klasse</i> <b>111</b> (1902), 334 | <i>Mineralogy and Petrology</i> <b>61</b> (1997), 199                             |
| Zeravshanite        | $\text{Na}_2\text{Cs}_4\text{Zr}_3\text{Si}_{18}\text{O}_{45}(\text{H}_2\text{O})_2$                                     | A  | 2003-034  | Tajikistan     | <i>New Data on Minerals</i> <b>39</b> (2004), 21                                                                                   | <i>Canadian Mineralogist</i> <b>42</b> (2004), 125                                |
| Zeunerite           | $\text{Cu}(\text{UO}_2)_2(\text{AsO}_4)_2(\text{H}_2\text{O})_4 \cdot 8\text{H}_2\text{O}$                               | G  | 1872      | Germany        | <i>Neues Jahrbuch für Mineralogie</i> (1872), 207                                                                                  | <i>Canadian Mineralogist</i> <b>41</b> (2003), 489                                |
| Zhanghengite        | $\text{CuZn}$                                                                                                            | A  | 1985-049  | China          | <i>Acta Mineralogica Sinica</i> <b>6</b> (1986), 220                                                                               |                                                                                   |
| Zhanghuifenite      | $\text{Na}_3\text{Mn}_4\text{Mg}_2\text{Al}(\text{PO}_4)_6$                                                              | A  | 2016-074  | Argentina      | <i>American Mineralogist</i> <b>106</b> (2021), 1009                                                                               |                                                                                   |
| Zhangpeishanite     | $\text{BaFCl}$                                                                                                           | A  | 2006-045  | China          | <i>European Journal of Mineralogy</i> <b>20</b> (2008), 1141                                                                       | <i>Acta Crystallographica</i> <b>B30</b> (1974), 2786                             |
| Zharchikhite        | $\text{Al}(\text{OH})_2\text{F}$                                                                                         | A  | 1986-059  | Russia         | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>117</b> (1988), 79                                                   | <i>Acta Crystallographica</i> <b>B80</b> (2024), 38                               |
| Zhemchuzhnikovite   | $\text{Na}[\text{Mg}(\text{H}_2\text{O})_6]\text{Al}(\text{C}_2\text{O}_4)_3 \cdot 3\text{H}_2\text{O}$                  | A  | 1967 s.p. | Russia         | <i>Trudy Vsesouznogo Nauchno-Issledovatel'skovo Geologicheskogo Instituta</i> <b>96</b> (1963), 131                                | <i>Physics and Chemistry of Minerals</i> <b>43</b> (2016), 287                    |
| Zhengminghuaite     | $\text{Cu}_6\text{Fe}_3\text{As}_4\text{S}_{12}$                                                                         | A  | 2022-047  | China          | <i>American Mineralogist</i> <b>109</b> (2024), 1220                                                                               |                                                                                   |
| Zhenruite           | $(\text{MoO}_3)_2(\text{H}_2\text{O})$                                                                                   | A  | 2022-050  | USA            | <i>European Journal of Mineralogy</i> <b>38</b> (2026), 39                                                                         |                                                                                   |
| Zheshengite         | $\text{Pb}_4\text{ZnZn}_2(\text{AsO}_4)_2(\text{PO}_4)_2(\text{OH})_2$                                                   | A  | 2022-011  | China          | <i>Minerals</i> <b>14</b> (2024), 1276                                                                                             |                                                                                   |
| Zhiqinite           | $\text{TiSi}_2$                                                                                                          | A  | 2019-077  | China          | <i>European Journal of Mineralogy</i> <b>32</b> (2020), 557                                                                        |                                                                                   |
| Zhonghongite        | $\text{Cu}_{29}(\text{As,Sb})_{12}\text{S}_{33}$                                                                         | A  | 2023-046  | China          | <i>American Mineralogist</i> <b>110</b> (2025), 312                                                                                |                                                                                   |
| Ziesite             | $\text{Cu}_2\text{V}^{5+}_2\text{O}_7$                                                                                   | A  | 1979-055  | El Salvador    | <i>American Mineralogist</i> <b>65</b> (1980), 1146                                                                                | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1989), 41                      |
| Zigrasite           | $\text{MgZr}(\text{PO}_4)_2(\text{H}_2\text{O})_4$                                                                       | A  | 2008-046  | USA            | <i>Mineralogical Magazine</i> <b>73</b> (2009), 415                                                                                | <i>Mineralogical Magazine</i> <b>74</b> (2010), 567                               |
| Zilbermintsite-(La) | $(\text{CaLa}_5)(\text{Fe}^{3+}_3\text{Al}_3\text{Fe}^{2+})[\text{Si}_2\text{O}_7][\text{SiO}_4]_5\text{O}(\text{OH})_3$ | A  | 2023-063  | Russia         | <i>Mineralogical Magazine</i> <b>88</b> (2024), 302                                                                                |                                                                                   |
| Zimbabweite         | $\text{Na}(\text{Pb,Na,K})_2(\text{Ta,Nb,Ti})_4\text{As}_4\text{O}_{18}$                                                 | A  | 1984-034  | Zimbabwe       | <i>Bulletin de Minéralogie</i> <b>109</b> (1986), 331                                                                              | <i>American Mineralogist</i> <b>73</b> (1988), 1186                               |
| Ziminaite           | $\text{Fe}^{3+}(\text{VO}_4)$                                                                                            | A  | 2014-062  | Russia         | <i>Mineralogy and Petrology</i> <b>112</b> (2018), 371                                                                             |                                                                                   |
| Zinc                | $\text{Zn}$                                                                                                              | G  | ?         | Chile          | original paper?                                                                                                                    | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>110</b> (1981), 186 |
| Zincalstibite       | $\text{Zn}_2\text{Al}(\text{OH})_6[\text{Sb}(\text{OH})_6]$                                                              | A  | 1998-033  | Italy          | <i>American Mineralogist</i> <b>92</b> (2007), 198                                                                                 | <i>Mineralogical Magazine</i> <b>76</b> (2012), 1337                              |
| Zincaluminite       | $(\text{Zn}_{1-x}\text{Al}_x)(\text{SO}_4)_{x/2}(\text{OH})_2 \cdot n\text{H}_2\text{O}$ ( $x < 0.5$ , $n > 3x/2$ )      | Q  | 1881      | Greece         | <i>Bulletin de la Société Minéralogique de France</i> <b>4</b> (1881), 136                                                         |                                                                                   |
| Zincgartrellite     | $\text{PbZn}_2(\text{AsO}_4)_2(\text{H}_2\text{O})_2$                                                                    | A  | 1998-014  | Namibia        | <i>Mineralogical Magazine</i> <b>64</b> (2000), 1109                                                                               |                                                                                   |
| Zincite             | $\text{ZnO}$                                                                                                             | G  | 1845      | USA            | Handbuch der Bestimmenden Mineralogie. Braumüller and Seidel, Wien (1845), 548                                                     | <i>Canadian Mineralogist</i> <b>23</b> (1985), 647                                |
| Zinclipscombite     | $\text{ZnFe}^{3+}_2(\text{PO}_4)_2(\text{OH})_2$                                                                         | A  | 2006-008  | USA            | <i>Zapiski Rossiyskogo Mineralogicheskogo Obshchestva</i> <b>135(6)</b> (2006), 13                                                 |                                                                                   |
| Zincmelanterite     | $\text{Zn}(\text{SO}_4)(\text{H}_2\text{O})_6 \cdot \text{H}_2\text{O}$                                                  | Rn | 2007 s.p. | USA            | <i>American Journal of Science</i> <b>50</b> (1920), 225                                                                           | <i>Canadian Mineralogist</i> <b>41</b> (2003), 937                                |
| Zincoberaunite      | $\text{ZnFe}^{3+}_5(\text{PO}_4)_4(\text{OH})_5(\text{H}_2\text{O})_4 \cdot 2\text{H}_2\text{O}$                         | A  | 2015-117  | Germany        | <i>Mineralogy and Petrology</i> <b>111</b> (2017), 351                                                                             | <i>Journal of Geosciences</i> <b>65</b> (2020), 45                                |

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| Zincobotryogen      | $\text{ZnFe}^{3+}(\text{SO}_4)_2(\text{OH})(\text{H}_2\text{O})_6 \cdot \text{H}_2\text{O}$                         | A  | 2015-107  | China                            | <i>Mineralogy and Petrology</i> <b>111</b> (2017), 363                                      |                                                                                             |
| Zincobradaczekite   | $\text{NaCuCuZn}_2(\text{AsO}_4)_3$                                                                                 | A  | 2016-041  | Russia                           | <i>Physics and Chemistry of Minerals</i> <b>47</b> (2020), 36                               |                                                                                             |
| Zincobriartite      | $\text{Cu}_2\text{ZnGeS}_4$                                                                                         | A  | 2015-094  | Democratic Republic of the Congo | CNMNC Newsletter 29 - <i>Mineralogical Magazine</i> <b>80</b> (2016), 199                   |                                                                                             |
| Zincochenite        | $\text{Pb}_4\text{Zn}(\text{OH})_6(\text{SO}_4)_2$                                                                  | A  | 2022-025  | USA                              | <i>Canadian Journal of Mineralogy and Petrology</i> <b>62</b> (2024), 529                   |                                                                                             |
| Zincochromite       | $\text{ZnCr}_2\text{O}_4$                                                                                           | A  | 1986-015  | Russia                           | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>116</b> (1987), 367           | <i>American Mineralogist</i> <b>90</b> (2005), 1157                                         |
| Zincocopiapite      | $\text{ZnFe}^{3+}_4(\text{SO}_4)_6(\text{OH})_2(\text{H}_2\text{O})_{14} \cdot 6\text{H}_2\text{O}$                 | G  | 1964      | China                            | <i>Acta Geologica Sinica</i> <b>44</b> (1964), 99                                           | <i>Schweizerische Mineralogische und Petrographische Mitteilungen</i> <b>67</b> (1987), 115 |
| Zincohögbomite-2N2S | $(\text{Zn}, \text{Al}, \text{Fe})_3(\text{Al}, \text{Fe}, \text{Ti})_8\text{O}_{15}(\text{OH})$                    | Rn | 1994-016  | Greece                           | <i>European Journal of Mineralogy</i> <b>10</b> (1998), 1361                                |                                                                                             |
| Zincohögbomite-2N6S | $(\text{Zn}, \text{Al})_7(\text{Al}, \text{Fe}^{3+}, \text{Ti}, \text{Mg})_{16}\text{O}_{31}(\text{OH})$            | Rn | 2001 s.p. | North Macedonia                  | <i>Schweizerische Mineralogische und Petrographische Mitteilungen</i> <b>78</b> (1998), 469 |                                                                                             |
| Zincolibethenite    | $\text{CuZn}(\text{PO}_4)(\text{OH})$                                                                               | A  | 2003-010  | Zambia                           | <i>Mineralogical Magazine</i> <b>69</b> (2005), 145                                         | <i>Australian Journal of Mineralogy</i> <b>12</b> (2006), 3                                 |
| Zincolivenite       | $\text{CuZn}(\text{AsO}_4)(\text{OH})$                                                                              | A  | 2006-047  | Greece                           | <i>Doklady Earth Sciences</i> <b>415A</b> (2007), 841                                       | <i>Mineralogical Magazine</i> <b>87</b> (2023), 659                                         |
| Zincomenite         | $\text{ZnSeO}_3$                                                                                                    | A  | 2014-014  | Russia                           | <i>European Journal of Mineralogy</i> <b>28</b> (2016), 997                                 |                                                                                             |
| Zinconigerite-2N1S  | $\text{ZnSn}_2\text{Al}_{12}\text{O}_{22}(\text{OH})_2$                                                             | A  | 2018-037  | China                            | <i>American Mineralogist</i> <b>107</b> (2022), 1952                                        |                                                                                             |
| Zinconigerite-6N6S  | $\text{Zn}_3\text{Sn}_2\text{Al}_{16}\text{O}_{30}(\text{OH})_2$                                                    | A  | 2018-122a | China                            | <i>American Mineralogist</i> <b>107</b> (2022), 1952                                        |                                                                                             |
| Zincorietveldite    | $\text{Zn}(\text{UO}_2)(\text{SO}_4)_2(\text{H}_2\text{O})_5$                                                       | A  | 2022-070  | USA                              | <i>Mineralogical Magazine</i> <b>87</b> (2023), 528                                         |                                                                                             |
| Zincorinmanite-(Zn) | $\text{ZnSb}^{5+}(\text{Fe}^{3+}_2\text{Zn})\text{O}_7(\text{OH})$                                                  | A  | 2023-107  | North Macedonia                  | <i>Mineralogical Magazine</i> <b>89</b> (2025), 347                                         |                                                                                             |
| Zincospiroffite     | $\text{Zn}_2\text{Te}_3\text{O}_8$                                                                                  | A  | 2002-047  | China                            | <i>Canadian Mineralogist</i> <b>42</b> (2004), 763                                          | <i>Journal of Solid State Chemistry</i> <b>143</b> (1999), 246                              |
| Zincostauroilite    | $\text{Zn}_2\text{Al}_9\text{Si}_4\text{O}_{23}(\text{OH})$                                                         | A  | 1992-036  | Switzerland                      | <i>European Journal of Mineralogy</i> <b>15</b> (2003), 167                                 | <i>American Mineralogist</i> <b>88</b> (2003), 789                                          |
| Zincostottite       | $\text{ZnGe}(\text{OH})_6$                                                                                          | A  | 2024-024  | Namibia                          | <i>Mineralogical Magazine</i> <b>89</b> (2025), 266                                         |                                                                                             |
| Zincostrunzite      | $\text{ZnFe}^{3+}_2(\text{PO}_4)_2(\text{OH})_2(\text{H}_2\text{O})_6 \cdot 0.5\text{H}_2\text{O}$                  | A  | 2016-023  | Portugal / Germany               | <i>European Journal of Mineralogy</i> <b>29</b> (2017), 315                                 | <i>Mineralogical Magazine</i> <b>81</b> (2017), 755                                         |
| Zincovelesite-6N6S  | $\text{Zn}_3(\text{Fe}^{3+}, \text{Mn}^{3+}, \text{Al}, \text{Ti})_8\text{O}_{15}(\text{OH})$                       | A  | 2017-034  | North Macedonia                  | <i>Mineralogy and Petrology</i> <b>112</b> (2018), 733                                      |                                                                                             |
| Zincovoltaitaite    | $\text{K}_2\text{Zn}_5\text{Fe}^{3+}_3\text{Al}(\text{SO}_4)_{12}(\text{H}_2\text{O})_{18}$                         | A  | 1985-059  | China                            | <i>Acta Mineralogica Sinica</i> <b>7</b> (1987), 307                                        | <i>Mineralogy and Petrology</i> <b>107</b> (2013), 221                                      |
| Zincowoodwardite    | $(\text{Zn}_{1-x}\text{Al}_x)(\text{SO}_4)_{x/2}(\text{OH})_2 \cdot n\text{H}_2\text{O}$ ( $x < 0.5$ , $n < 3x/2$ ) | A  | 1998-026  | Greece                           | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (2000), 455                               |                                                                                             |
| Zincrosasite        | $(\text{Zn}, \text{Cu})_2(\text{CO}_3)(\text{OH})_2$                                                                | Q  | 1959      | Namibia                          | <i>Fortschritte der Mineralogie</i> <b>37</b> (1959), 87                                    |                                                                                             |
| Zincroselite        | $\text{Ca}_2\text{Zn}(\text{AsO}_4)_2(\text{H}_2\text{O})_2$                                                        | A  | 1985-055  | Namibia                          | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1986), 523                               | <i>European Journal of Mineralogy</i> <b>16</b> (2004), 353                                 |

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| Zincsilite     | $\text{Zn}_3\text{Si}_4\text{O}_{10}(\text{OH})_2 \cdot 4\text{H}_2\text{O}$ (?)                                                                                     | Q  | 1962 s.p. | Kazakhstan             | Report of the Meeting of the International Committee for the Study of Clays (1960), 45                                                 |                                                                |
| Zinczippeite   | $\text{Zn}(\text{UO}_2)_2(\text{SO}_4)_2(\text{H}_2\text{O})_{3.5}$                                                                                                  | Rn | 1971-008  | USA                    | <i>Canadian Mineralogist</i> <b>14</b> (1976), 429                                                                                     | <i>Canadian Mineralogist</i> <b>41</b> (2003), 687             |
| Zinkenite      | $\text{Pb}_9\text{Sb}_{22}\text{S}_{42}$                                                                                                                             | G  | 1826      | Germany                | <i>Annalen der Physik und Chemie</i> <b>7</b> (1826), 91                                                                               | <i>Zeitschrift für Kristallographie</i> <b>233</b> (2018), 269 |
| Zinkgruvanite  | $\text{Ba}_4\text{Mn}^{2+}_4\text{Fe}^{3+}_2(\text{Si}_2\text{O}_7)_2(\text{SO}_4)_2\text{O}_2(\text{OH})_2$                                                         | A  | 2020-031  | Sweden                 | <i>European Journal of Mineralogy</i> <b>33</b> (2021), 659                                                                            |                                                                |
| Zinkosite      | $\text{Zn}(\text{SO}_4)$                                                                                                                                             | G  | 1852      | Spain                  | <i>Berg- und Hüttenmännische Zeitung</i> <b>11</b> (1852), 100                                                                         | <i>Mineralogy and Petrology</i> <b>39</b> (1988), 201          |
| Zippeite       | $\text{K}_2[(\text{UO}_2)_4(\text{SO}_4)_2\text{O}_2(\text{OH})_2](\text{H}_2\text{O})_4$                                                                            | Rd | 1971-029a | Czech Republic         | Handbuch der Bestimmenden Mineralogie. Braumüller and Seidel, Wien (1845), 510                                                         | <i>Canadian Mineralogist</i> <b>49</b> (2011), 1089            |
| Zipserite      | $\text{Bi}_5\text{S}_4$                                                                                                                                              | A  | 2022-075  | Hungary                | <i>Mineralogical Magazine</i> <b>88</b> (2024), 482                                                                                    |                                                                |
| Zircarsite     | $\text{Na}_{18}\text{Cu}_{12}\text{ZrO}_8(\text{AsO}_4)_8\text{Cl}_6$                                                                                                | A  | 2024-037  | Russia                 | CNMNC Newsletter 81 - <i>Mineralogical Magazine</i> <b>88</b> (2024), 632; <i>European Journal of Mineralogy</i> <b>36</b> (2024), 917 |                                                                |
| Zircon         | $\text{Zr}(\text{SiO}_4)$                                                                                                                                            | G  | 1789      | Sri Lanka              | <i>Bergmannisches Journal</i> <b>1</b> (1789), 369                                                                                     | <i>European Journal of Mineralogy</i> <b>37</b> (2025), 257    |
| Zirconolite    | $(\text{Ca}, \text{Y})\text{Zr}(\text{Ti}, \text{Mg}, \text{Al})_2\text{O}_7$                                                                                        | Rd | 1989 s.p. | Norway                 | <i>Kongliga Svenska Vetenskaps-Akademiens Handlingar</i> (1824), 334                                                                   | <i>Mineralogical Magazine</i> <b>89</b> (2025), 492            |
| Zircophyllite  | $\text{K}_2\text{NaFe}^{2+}_7\text{Zr}_2(\text{Si}_4\text{O}_{12})_2\text{O}_2(\text{OH})_4\text{F}$                                                                 | Rd | 1971-047  | Russia                 | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>101</b> (1972), 459                                                      | <i>Canadian Mineralogist</i> <b>54</b> (2016), 1539            |
| Zircosulfate   | $\text{Zr}(\text{SO}_4)_2(\text{H}_2\text{O})_4$                                                                                                                     | A  | 1968 s.p. | Russia                 | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>94</b> (1965), 530                                                       | <i>Acta Crystallographica</i> <b>12</b> (1959), 719            |
| Zirkelite      | $(\text{Ti}, \text{Ca}, \text{Zr})\text{O}_{2-x}$                                                                                                                    | Rd | 1989 s.p. | Brazil                 | <i>Mineralogical Magazine</i> <b>11</b> (1895), 80                                                                                     | <i>American Mineralogist</i> <b>68</b> (1983), 262             |
| Zirklerite     | $(\text{Fe}, \text{Mg})_9\text{Al}_4\text{Cl}_{18}(\text{OH})_{12} \cdot 14\text{H}_2\text{O}$ (?)                                                                   | Q  | 1928      | Germany                | <i>Kali und Verwandte Salze</i> <b>22</b> (1928), 157                                                                                  |                                                                |
| Ziroite        | $\text{ZrO}_2$                                                                                                                                                       | A  | 2022-013  | Israel                 | <i>Materials</i> <b>16</b> (2023), 7578                                                                                                |                                                                |
| Zirsilite-(Ce) | $(\text{Na}, \square)_{12}(\text{Ce}, \text{Na})_3\text{Ca}_6\text{Mn}_3\text{Zr}_3\text{NbSi}_{25}\text{O}_{73}(\text{OH})_3(\text{CO}_3) \cdot \text{H}_2\text{O}$ | A  | 2002-057  | Tajikistan             | <i>Zapiski Vserossiyskogo Mineralogicheskogo Obshchestva</i> <b>132(5)</b> (2003), 40                                                  |                                                                |
| Zirsinalite    | $\text{Na}_6\text{CaZrSi}_6\text{O}_{18}$                                                                                                                            | A  | 1973-025  | Russia                 | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>103</b> (1974), 551                                                      | <i>Doklady Akademii Nauk SSSR</i> <b>250</b> (1980), 865       |
| Zlatogorite    | $\text{CuNiSb}_2$                                                                                                                                                    | A  | 1994-014  | Russia                 | <i>Vestnik Moskovskogo Universiteta, Geologiya Seriya</i> <b>50</b> (1995), 57                                                         | <i>Inorganic Chemistry</i> <b>59</b> (2020), 14058             |
| Znamenskyite   | $\text{Pb}_4\text{In}_2\text{Bi}_4\text{S}_{13}$                                                                                                                     | A  | 2014-026  | Russia                 | CNMNC Newsletter 21 - <i>Mineralogical Magazine</i> <b>78</b> (2014), 797                                                              |                                                                |
| Znucalite      | $\text{Zn}_{10}\text{Ca}(\text{UO}_2)(\text{CO}_3)_4(\text{OH})_{16}(\text{H}_2\text{O})_5$                                                                          | A  | 1989-033  | Czech Republic         | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1990), 393                                                                          | <i>American Mineralogist</i> <b>109</b> (2024), 949            |
| Zodacite       | $\text{Ca}_4\text{Mn}^{2+}_4\text{Fe}^{3+}_4(\text{PO}_4)_6(\text{OH})_4(\text{H}_2\text{O})_{12}$                                                                   | A  | 1987-014  | Portugal               | <i>American Mineralogist</i> <b>73</b> (1988), 1179                                                                                    |                                                                |
| Zoharite       | $(\text{Ba}, \text{K})_6(\text{Fe}, \text{Cu}, \text{Ni})_{25}\text{S}_{27}$                                                                                         | A  | 2017-049  | Israel                 | <i>Minerals</i> <b>15</b> (2025), 564                                                                                                  |                                                                |
| Zoisite        | $\text{Ca}_2\text{Al}_3(\text{Si}_2\text{O}_7)(\text{SiO}_4)\text{O}(\text{OH})$                                                                                     | G  | 1805      | Austria                | System of Mineralogy, Vol. 2. Bell and Bradfute, Edinburgh (1805), 597                                                                 | <i>Mineralogical Magazine</i> <b>87</b> (2023), 599            |
| Zoisite-(Pb)   | $\text{CaPbAl}_3(\text{Si}_2\text{O}_7)(\text{SiO}_4)\text{O}(\text{OH})$                                                                                            | A  | 2021-025  | Sweden                 | <i>Minerals</i> <b>12</b> (2022), 51                                                                                                   |                                                                |
| Zolenskyite    | $\text{FeCr}_2\text{S}_4$                                                                                                                                            | A  | 2020-070  | Azerbaijan (meteorite) | <i>American Mineralogist</i> <b>107</b> (2022), 1030                                                                                   | <i>Mineralogical Magazine</i> <b>90</b> (2026), 176            |

|                   |                                                                                                                               |    |           |                |                                                                                                                                        |                                                                                     |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------|----|-----------|----------------|----------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Zolotarevite      | $\text{Na}_5\text{Zr}[\text{Si}_6\text{O}_{15}(\text{OH})_3] \cdot 3\text{H}_2\text{O}$                                       | A  | 2020-076  | Russia         | <i>Mineralogical Magazine</i> <b>86</b> (2022), 263                                                                                    |                                                                                     |
| Zoltaiite         | $\text{BaV}^{4+}_2\text{V}^{3+}_{12}\text{Si}_2\text{O}_{27}$                                                                 | A  | 2003-006  | Canada         | <i>American Mineralogist</i> <b>90</b> (2005), 1655                                                                                    |                                                                                     |
| Zorite            | $\text{Na}_6\text{Ti}_5\text{Si}_{12}\text{O}_{34}(\text{O},\text{OH})_5(\text{H}_2\text{O})_7 \cdot 4\text{H}_2\text{O}$     | A  | 1972-011  | Russia         | <i>Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva</i> <b>102</b> (1973), 54                                                       | <i>Microporous and Mesoporous Materials</i> <b>21</b> (1998), 143                   |
| Zoubekite         | $\text{AgPb}_4\text{Sb}_4\text{S}_{10}$                                                                                       | A  | 1983-032  | Czech Republic | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1986), 1                                                                            |                                                                                     |
| Zoyashlyukovaite  | $\text{MoC}$                                                                                                                  | A  | 2025-026  | Russia         | CNMNC Newsletter 86 - <i>Mineralogical Magazine</i> <b>89</b> (2025), 544; <i>European Journal of Mineralogy</i> <b>37</b> (2025), 549 |                                                                                     |
| Zubkovaite        | $\text{Ca}_3\text{Cu}_3(\text{AsO}_4)_4$                                                                                      | A  | 2018-008  | Russia         | <i>Mineralogical Magazine</i> <b>83</b> (2019), 879                                                                                    |                                                                                     |
| Zugshunstite-(Ce) | $\text{CeAl}(\text{SO}_4)_2(\text{C}_2\text{O}_4)(\text{H}_2\text{O})_8 \cdot 4\text{H}_2\text{O}$                            | A  | 1996-055  | USA            | <i>Geochimica et Cosmochimica Acta</i> <b>65</b> (2001), 1101                                                                          |                                                                                     |
| Zuktamrurite      | $\text{FeP}_2$                                                                                                                | A  | 2013-107  | Israel         | <i>Physics and Chemistry of Minerals</i> <b>46</b> (2019), 361                                                                         |                                                                                     |
| Zunyite           | $\text{Al}_{13}\text{Si}_5\text{O}_{20}(\text{OH},\text{F})_{18}\text{Cl}$                                                    | G  | 1884      | USA            | <i>Proceedings of the Colorado Scientific Society</i> <b>1</b> (1884), 124                                                             | <i>Canadian Mineralogist</i> <b>41</b> (2003), 891                                  |
| Zuolinite         | $\text{Ba}_2\text{Sr}(\text{Nb}_{4.5}\text{Fe}^{3+}_{0.5})\text{O}_{15}$                                                      | A  | 2025-058  | China          | CNMNC Newsletter 89 - <i>Mineralogical Magazine</i> <b>90</b> (2026), 481; <i>European Journal of Mineralogy</i> <b>38</b> (2026), 117 |                                                                                     |
| Zussmanite        | $\text{K}(\text{Fe},\text{Mg},\text{Mn})_{13}(\text{Si},\text{Al})_{18}\text{O}_{42}(\text{OH})_{14}$                         | A  | 1964-018  | USA            | <i>American Mineralogist</i> <b>50</b> (1965), 278                                                                                     | <i>Mineralogical Magazine</i> <b>37</b> (1969), 49                                  |
| Zvěstovite-(Fe)   | $\text{Ag}_6(\text{Ag}_4\text{Fe}_2)\text{As}_4\text{S}_{13}$                                                                 | A  | 2022-092  | Russia         | <i>European Journal of Mineralogy</i> <b>36</b> (2024), 529                                                                            |                                                                                     |
| Zvěstovite-(Zn)   | $\text{Ag}_6(\text{Ag}_4\text{Zn}_2)\text{As}_4\text{S}_{13}$                                                                 | A  | 2020-061  | Czech Republic | <i>Mineralogical Magazine</i> <b>85</b> (2021), 716                                                                                    |                                                                                     |
| Zvyaginite        | $\text{Na}\square\text{Nb}_2\text{NaN}\square\text{Ti}(\text{Si}_2\text{O}_7)_2\text{O}_2(\text{OH})_2(\text{H}_2\text{O})_4$ | Rd | 2013-071  | Russia         | <i>Zapiski Rossiyskogo Mineralogicheskogo Obshchestva</i> <b>143(2)</b> (2014), 45                                                     | <i>Zapiski Rossiyskogo Mineralogicheskogo Obshchestva</i> <b>153(5)</b> (2024), 156 |
| Zvyagintsevite    | $\text{Pd}_3\text{Pb}$                                                                                                        | A  | 1966-006  | Russia         | <i>Geologiya Rudnykh Mestorozhdeniy</i> <b>8</b> (1966), 94                                                                            | <i>Canadian Mineralogist</i> <b>35</b> (1997), 773                                  |
| Zwieselite        | $\text{Fe}^{2+}_2(\text{PO}_4)\text{F}$                                                                                       | Rd | 2003 s.p. | Germany        | Vollständiges Handbuch der Mineralogie, Vol. 2. Arnoldische, Dresden und Leipzig (1849), 299                                           | <i>Doklady Akademii Nauk SSSR</i> <b>238</b> (1978), 576                            |
| Zýkaite           | $\text{Fe}^{3+}_4(\text{AsO}_4)_3(\text{SO}_4)(\text{OH}) \cdot 15\text{H}_2\text{O}$                                         | A  | 1976-039  | Czech Republic | <i>Neues Jahrbuch für Mineralogie Monatshefte</i> (1978), 134                                                                          |                                                                                     |

All cells modified after the preceding release (May 2026) are highlighted in yellow