



## IMA Commission on New Minerals, Nomenclature and Classification (CNMNC) – Newsletter 74

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The information given here is provided by the IMA Commission on New Minerals, Nomenclature and Classification for comparative purposes and as a service to mineralogists working on new species.

Each mineral is described in the following format:

- Mineral name, if the authors agree on its release prior to the full description appearing in press
- Chemical formula (ideal formula)
- Mineral symbol
- Type locality
- Full authorship of proposal
- E-mail address of corresponding author
- Relationship to other minerals
- Crystal system, Space group; Structure determined, yes or no
- Unit-cell parameters
- Strongest lines in the X-ray powder diffraction pattern
- Type specimen repository and specimen number

– Citation details for the mineral prior to publication of full description

Citation details concern the fact that this information will be published in the *European Journal of Mineralogy* on a routine basis, as well as being added month by month to the commission's website.

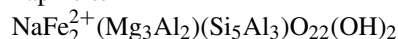
It is still a requirement for the authors to publish a full description of the new mineral.

No other information will be released by the commission.

### 1 New mineral proposals approved in June 2023

#### IMA no. 2022-145

Papikeite



Ppk

On the southeastern shore of the island of Ærøya, Norway,  
(58°24'56" N, 8°46'03" E)

Jan B. Kihle, Maxwell C. Day, and Frank C. Hawthorne\*

\* E-mail: frank.hawthorne@umanitoba.ca

Amphibole supergroup

Orthorhombic: *Pnma*; structure determined

$a = 18.6322(6)$ ,  $b = 17.8492(6)$ ,  $c = 5.2811(2)$  Å

3.223(70), 3.059(100), 2.819(55), 2.670(54), 2.565(95), 2.542(93), 2.498(61), 1.511(68)

Type material is deposited in the collections of the Royal Ontario Museum, 100 Queens Park, Toronto, ON M5S 2C6, Canada, accession number M60376

How to cite: Kihle, J. B., Day, M. C., and Hawthorne, F. C.: Papikeite, IMA 2022-145, in: CNMNC Newsletter 74, Eur. J. Mineral., 35, <https://doi.org/10.5194/ejm-35-659-2023>, 2023.

#### IMA no. 2023-002

Enricofrancoite

$\text{KNaCaSi}_4\text{O}_{10}$

Enf

In crusts covering metamorphosed lapilli related to the 1872 eruption, Somma–Vesuvius volcano, Naples, Italy (40°49′17.0″ N, 14°25′34.6″ E)

Giuseppina Balassone, Taras L. Panikorovskii\*, Annamaria Pellino, Ayya V. Bazai, Vladimir N. Bocharov, Olga F. Goychuk, Evgenia Y. Avdontseva, Victor N. Yakovenchuk, Sergey V. Krivovichev, Carmela Petti, Piergiulio Cappelletti, Nicola Mondillo, Anna Moliterni, and Angela Altomare

\* E-mail: [t.panikorovskii@ksc.ru](mailto:t.panikorovskii@ksc.ru)

Litidionite group

Triclinic:  $P\bar{1}$ ; structure determined

$a = 7.0155(4)$ ,  $b = 8.0721(4)$ ,  $c = 10.0275(4)$  Å,  
 $\alpha = 104.420(4)$ ,  $\beta = 99.764(4)$ ,  $\gamma = 115.126(5)^\circ$

6.75(35), 4.05(15), 3.65(18), 3.37(100), 3.22(75), 2.976(13), 2.835(18), 2.409(85)

Type material is deposited in the collections of the Royal Mineralogical Museum, University of Naples Federico II, Via Mezzocannone 8, 80134 Naples, Italy, catalogue number 17926/E6457

How to cite: Balassone, P., Panikorovskii, T. L., Pellino, A., Bazai, A. V., Bocharov, V. N., Goychuk, O. F., Avdontseva, E. Y., Yakovenchuk, V. N., Krivovichev, S. V., Petti, C., Cappelletti, P., Mondillo, N., Moliterni, A., and Altomare, A.: Enricofrancoite, IMA 2023-002, in: CNMNC Newsletter 74, Eur. J. Mineral., 35, <https://doi.org/10.5194/ejm-35-659-2023>, 2023.

#### IMA no. 2023-015

Magnesio-dutrowite

$\text{Na}(\text{Mg}_{2.5}\text{Ti}_{0.5})\text{Al}_6(\text{Si}_6\text{O}_{18})(\text{BO}_3)_3(\text{OH})_3\text{O}$

Mdtw

Rędziny, near Kamienna Góra, Karkonosze granite massif, northeastern part of the Bohemian Massif, Western Sudetes, Poland (50°49′06″ N, 15°55′28″ E)

Adam Pieczka\*, Mateusz P. Sęk, Marcin Stachowicz, Adam Włodek, Bożena Gołębiowska, Jarosław Majka, and Krzysztof Woźniak

\* E-mail: [pieczka@agh.edu.pl](mailto:pieczka@agh.edu.pl)

Tourmaline supergroup

Trigonal:  $R3m$ ; structure determined

$a = 15.9682(4)$ ,  $c = 7.2081(2)$  Å

6.39(41), 4.231(56), 3.992(69), 3.488(51), 2.967(65), 2.582(100), 2.045(40), 1.923(25)

Type material is deposited in the collections of the Mineralogical Museum, Institute of Geological Sciences, University of Wrocław, Cybulskiego 30, 50-205 Wrocław, Poland, catalogue number MMUWr IV8121

How to cite: Pieczka, A., Sęk, M. P., Stachowicz, M., Włodek, A., Gołębiowska, B., Majka, J., and Woźniak, K.: Magnesio-dutrowite, IMA 2023-015, in: CNMNC Newsletter 74, Eur. J. Mineral., 35, <https://doi.org/10.5194/ejm-35-659-2023>, 2023.

#### IMA no. 2023-017

Mckelveyite-(Nd)

$\text{NaCaBa}_3\text{Nd}(\text{CO}_3)_6 \cdot 3\text{H}_2\text{O}$

Mkv-Nd

Kirovsky Mine (level +252 m), Kukisvumchorr Mount, Khibiny Massif, Murmansk Oblast, Russia (67°40′ N, 33°43′ E)

Inna Lykova\*, Ralph Rowe, Glenn Poirier, and Stephanie Barnes

\* E-mail: [ilykova@nature.ca](mailto:ilykova@nature.ca)

Mckelveyite group

Monoclinic:  $Cc$ ; structure determined

$a = 15.877(1)$ ,  $b = 9.1792(7)$ ,  $c = 13.8292(8)$  Å,  
 $\beta = 112.251(5)^\circ$

6.39(36), 4.584(37), 4.314(100), 3.124(84), 2.647(48), 2.623(26), 2.040(22), 2.019(29)

Type material is deposited in the collections of the Canadian Museum of Nature, P.O. Box 3443, Station D, Ottawa, Canada, catalogue number CMNMC 90535

How to cite: Lykova, I., Rowe, R., Poirier, G., and Barnes, S.: Mckelveyite-(Nd), IMA 2023-017, in: CNMNC Newsletter 74, Eur. J. Mineral., 35, <https://doi.org/10.5194/ejm-35-659-2023>, 2023.

#### IMA no. 2023-018

Bainbridgeite-(NdCe)

$\text{Na}_2\text{Ba}_2\text{NdCe}(\text{CO}_3)_6 \cdot 3\text{H}_2\text{O}$

Bbg-NdCe

Poudrette (Demix) quarry, Mont Saint-Hilaire, Quebec, Canada (45°33′46″ N, 73°08′30″ W)

Inna Lykova\*, Ralph Rowe, Glenn Poirier, Henrik Friis, Kelsie Ojaste, and Stephanie Barnes

\* E-mail: [ilykova@nature.ca](mailto:ilykova@nature.ca)

Mckelveyite group

Triclinic:  $P1$ ; structure determined

$a = 9.0525(3)$ ,  $b = 9.1178(2)$ ,  $c = 6.8518(2)$  Å,  
 $\alpha = 102.575(3)$ ,  $\beta = 116.272(4)$ ,  $\gamma = 59.788(4)^\circ$   
 6.17(50), 4.407(100), 4.077(30), 3.241(32), 2.870(88),  
 2.621(39), 2.253(22), 1.998(25)

Type material is deposited in the collections of the Canadian Museum of Nature, P.O. Box 3443, Station D, Ottawa, Canada, catalogue number CMNMC 90534

How to cite: Lykova, I., Rowe, R., Poirier, G., Friis, H., Ojaste, K., and Barnes, S.: Bainbridgeite-(NdCe), IMA 2023-018, in: CNMNC Newsletter 74, Eur. J. Mineral., 35, <https://doi.org/10.5194/ejm-35-659-2023>, 2023.

#### IMA no. 2023-019

Ferrodimolybdenite

$\text{FeMo}_2\text{S}_4$

Fdmol

Daba-Siwaqa complex, Transjordan Plateau, Jordan (31°22'01" N, 36°11'10" E)

Evgeny V. Galuskin\*, Irina O. Galuskina, Joachim Kusz, Maria Książek, Yevgeny Vapnik, and Grzegorz Zieliński

\* E-mail: [evgeny.galuskin@us.edu.pl](mailto:evgeny.galuskin@us.edu.pl)

Known synthetic analogue

Monoclinic:  $C2/c$ ; structure determined

$a = 11.8249(8)$ ,  $b = 6.5534(3)$ ,  $c = 13.005(1)$  Å,  
 $\beta = 114.474(9)^\circ$

5.918(100), 5.194(42), 2.865(47), 2.601(65), 2.597(33),  
 2.081(54), 2.046(25), 2.037(57)

Type material is deposited in the collections of the Fersman Mineralogical Museum, Russian Academy of Sciences, Leninskiy Prospekt 18-2, Moscow 115162, Russia, registration number 6005/1

How to cite: Galuskin, E. V., Galuskina, I. O., Kusz, J., Książek, M., Vapnik, Y., and Zieliński, G.: Ferrodimolybdenite, IMA 2023-019, in: CNMNC Newsletter 74, Eur. J. Mineral., 35, <https://doi.org/10.5194/ejm-35-659-2023>, 2023.

#### IMA no. 2023-021

Masaitisite

$\text{KCu}_5\text{O}_2(\text{SeO}_3)_2\text{Cl}_3$

Msts

Yadovitaya (poisonous) fumarole, second scoria cone of the Northern Breakthrough of the Great Tolbachik Fissure Eruption, Tolbachik volcano, Kamchatka Peninsula, Far Eastern Federal District, Russia (55°41' N, 160°14' E; 1200 m a.s.l.)

Igor V. Pekov\*, Mikhail N. Murashko, Atali A. Agakhanov, Marina F. Vigasina, Sergey N. Britvin, and Anna G. Turchkova

\* E-mail: [igorpekov@mail.ru](mailto:igorpekov@mail.ru)

The K analogue of ilinskite

Orthorhombic:  $Pnma$

$a = 18.154(5)$ ,  $b = 6.451(2)$ ,  $c = 10.567(3)$  Å

9.03(100), 5.50(55), 5.27(88), 3.276(52), 3.227(71),  
 2.633(63), 2.526(46), 2.347(43)

Type material is deposited in the collections of the Fersman Mineralogical Museum, Russian Academy of Sciences, Leninskiy Prospekt 18-2, Moscow 119071, Russia, registration number 6006/1

How to cite: Pekov, I. V., Murashko, M. N., Agakhanov, A. A., Vigasina, M. F., Britvin, S. N., and Turchkova, A. G.: Masaitisite, IMA 2023-021, in: CNMNC Newsletter 74, Eur. J. Mineral., 35, <https://doi.org/10.5194/ejm-35-659-2023>, 2023.

#### IMA no. 2023-022

Ferriandrosite-(Ce)

$\text{MnCe}(\text{Fe}^{3+}\text{AlMn}^{2+})(\text{Si}_2\text{O}_7)(\text{SiO}_4)\text{O}(\text{OH})$

Fea-Ce

Július manganese ore occurrence, northeastern slopes of the Turecká hill, 4 km WSW of the Betliar village, Rožňava Co., Košice Region, Slovakia (48°41'53.3" N, 20°29'20.1" E; 953 m a.s.l.)

Martin Števkó\*, Pavol Myšl'an, Cristian Biagioni, Daniela Mauro, and Tomáš Mikuš

\* E-mail: [msminerals@gmail.com](mailto:msminerals@gmail.com)

Epidote supergroup

Monoclinic:  $P2_1/m$ ; structure determined

$a = 8.8483(4)$ ,  $b = 5.7307(3)$ ,  $c = 10.0314(5)$  Å,  
 $\beta = 113.366(1)^\circ$

7.8(m), 3.511(ms), 2.895(vs), 2.704(m), 2.615(s), 2.177(m),  
 2.112(mw), 1.657(mw)

Type material is deposited in the collections of the Department of Mineralogy and Petrology, National Museum, Cirkusová 1740, 19300 Prague 9, Czech Republic, catalogue number PIP 2/2023, and the Museo di Storia Naturale, Università di Pisa, Via Roma 79, Calci (PI), Italy, catalogue number 20063

How to cite: Števkó, M., Myšl'an, P., Biagioni, C., Mauro, D., and Mikuš, T.: Ferriandrosite-(Ce), IMA 2023-022, in: CNMNC Newsletter 74, Eur. J. Mineral., 35, <https://doi.org/10.5194/ejm-35-659-2023>, 2023.

#### IMA no. 2023-023

Wiperamingaite

$\text{NaCaFe}^{3+}\text{Al}(\text{PO}_4)\text{F}_5(\text{OH}) \cdot \text{H}_2\text{O}$

Wip

Wiperaminga Hill West Quarry, Boolcoommatta Reserve, Olary Province, South Australia, Australia (31°57'42" S, 140°27'34" E)

Peter Elliott\* and Anthony R. Kampf

\* E-mail: [peter.elliott@adelaide.edu.au](mailto:peter.elliott@adelaide.edu.au)

New structure type

Orthorhombic:  $P2_12_12_1$ ; structure determined

$a = 5.354(1)$ ,  $b = 5.591(1)$ ,  $c = 26.279(5)$  Å  
4.29(28), 3.868(100), 2.825(32), 2.682(20), 2.397(19),  
2.199(29), 1.933(52), 1.702(23)

Type material is deposited in the collections of the South Australian Museum, North Terrace, Adelaide, South Australia 5000, Australia, registration number G35314

How to cite: Elliott, P. and Kampf, A. R.: Wiperamingaite, IMA 2023-023, in: CNMNC Newsletter 74, Eur. J. Mineral., 35, <https://doi.org/10.5194/ejm-35-659-2023>, 2023.

### IMA no. 2023-024

Alfredcasparite

$\text{Sr}_2\text{TiO}(\text{Si}_2\text{O}_7)$

Afc

Caspar quarry, Bellerberg volcano, Eifel, Germany (50°35'14" N, 7°23'54" E)

Rafał Juroszek\*, Krystian Prusik, and Christof Schäfer

\* E-mail: [rafal.juroszek@us.edu.pl](mailto:rafal.juroszek@us.edu.pl)

The Sr analogue of fresnoite

Tetragonal:  $P4bm$

$a = 8.3200(3)$ ,  $c = 5.0239(2)$  Å

3.204(40), 2.990(100), 2.631(29), 2.512(18), 2.082(16),  
2.018(15), 1.872(15), 1.817(16)

Type material is deposited in the collections of the Natural History Museum Mainz/State Collection for Natural History Rhineland-Palatinate, Reichklarastrasse 10, 55116 Mainz, Germany, catalogue number NHMMZ M 2023/1-LS

How to cite: Juroszek, R., Prusik, K., and Schäfer, C.: Alfredcasparite, IMA 2023-024, in: CNMNC Newsletter 74, Eur. J. Mineral., 35, <https://doi.org/10.5194/ejm-35-659-2023>, 2023.

### IMA no. 2023-025

Paramolybdomenite

$\text{PbSeO}_3$

Pmdm

Western paleo-fumarole field, Mountain 1004, Tolbachik volcano, Kamchatka Peninsula, Far Eastern Federal District, Russia

Igor V. Pekov\*, Sergey N. Britvin, Atali A. Agakhanov, Marina F. Vigasina, Anna G. Turchkova, and Pavel S. Zhegunov

\* E-mail: [igorpekov@mail.ru](mailto:igorpekov@mail.ru)

A dimorph of molybdomenite

Monoclinic:  $P2_1/c$ ; structure determined

$a = 8.997(1)$ ,  $b = 8.159(1)$ ,  $c = 9.032(1)$  Å,  $\beta = 103.33(1)^\circ$

3.823(17), 3.534(34), 3.293(100), 3.244(63), 2.997(35),  
2.981(36), 2.788(49), 2.760(26)

Type material is deposited in the collections of the Fersman Mineralogical Museum, Russian Academy of Sciences,

Leninskiy Prospekt 18-2, Moscow 119071, Russia, registration number 6007/1

How to cite: Pekov, I. V., Britvin, S. N., Agakhanov, A. A., Vigasina, M. F., Turchkova, A. G., and Zhegunov, P. S.: Paramolybdomenite, IMA 2023-025, in: CNMNC Newsletter 74, Eur. J. Mineral., 35, <https://doi.org/10.5194/ejm-35-659-2023>, 2023.

## 2 New mineral proposals approved in July 2023

### IMA no. 2022-136

Magnesioqingheiite

$\text{Na}_2\text{Mg}(\text{MgAl})(\text{PO}_4)_3$

Mqin

Western ridge of the Stockhorn, Zermatt valley, Valais, Switzerland (3400 m a.s.l.)

Fernando Cámara, Christian Chopin\*, and Damien Deldicque

\* E-mail: [chopin@geologie.ens.fr](mailto:chopin@geologie.ens.fr)

Alluaudite supergroup

Monoclinic:  $P2_1/n$ ; structure determined

$a = 11.7248(3)$ ,  $b = 12.3146(2)$ ,  $c = 6.3886(1)$  Å,  $\beta = 114.226(3)^\circ$

2.989(41), 2.844(35), 2.677(100), 2.518(43), 2.485(49),  
2.185(59), 1.728(52), 1.581(35)

Type material is deposited in the collections of the Musée de Minéralogie, École des Mines de Paris, 60 boulevard Saint-Michel, 75006 Paris, France, catalogue number EN-SMP 84268 (holotype), and the Muséum National d'Histoire Naturelle, 61 rue Buffon, Paris, France, catalogue number MNHN\_MIN\_223.002 (cotype)

How to cite: Cámara, F., Chopin, C., and Deldicque, D.: Magnesioqingheiite, IMA 2022-136, in: CNMNC Newsletter 74, Eur. J. Mineral., 35, <https://doi.org/10.5194/ejm-35-659-2023>, 2023.

### IMA no. 2023-026

Shinichengite

$\text{Ca}_5[\text{BSi}_2\text{O}_7(\text{OH})_2]_2 \cdot 6\text{H}_2\text{O}$

Shnc

Shijiangshan mine, at the boundary between Hexigten Banner and Linxi County, Chifeng, Inner Mongolia, China (43°43'15" N, 117°50'32" E)

Ningyue Sun, Yuan Xue, Jinhua Hao, Guowu Li\*, Hongtao Shen, Chang Li, Aiqing Chen, Natalia V. Zubkova, and Igor V. Pekov

\* E-mail: [liguowu@cugb.edu.cn](mailto:liguowu@cugb.edu.cn)

Chemically related to oyelite

Triclinic:  $P1$ ; structure determined

$a = 7.2341(2)$ ,  $b = 11.2289(3)$ ,  $c = 12.3471(4)$  Å,  $\alpha = 87.229(2)$ ,  $\beta = 81.587(2)$ ,  $\gamma = 89.986(2)^\circ$

12.26(100), 5.21(5), 4.073(7), 3.375(5), 3.024(13), 2.739(6), 2.630(6), 2.444(7)

Type material is deposited in the collections of the Geological Museum of China, Xisi, Yangrou Hutong No. 15, Xicheng District, Beijing, People's Republic of China, catalogue number GMCTM2023001 (holotype), and the Crystal Structure Laboratory, China University of Geosciences, Beijing 100083, People's Republic of China, catalogue number SJS-2 (cotype)

How to cite: Sun, N., Xue, Y., Hao, J., Li, G., Shen, H., Li, C., Chen, A., Zubkova, N. V., and Pekov, I. V.: Shinichengite, IMA 2023-026, in: CNMNC Newsletter 74, Eur. J. Mineral., 35, <https://doi.org/10.5194/ejm-35-659-2023>, 2023.

#### IMA no. 2023-027

Naalasite

$\text{NaAl}(\text{AsO}_3\text{OH})_2 \cdot \text{H}_2\text{O}$

Naa

Torrecillas mine, Salar Grande, Iquique Province, Tarapacá Region, Chile (20°58'36" S, 70°08'31" W)

Anthony R. Kampf\*, Gerhard Möhn, Chi Ma, and Joy Désor  
\* E-mail: [akampf@nhm.org](mailto:akampf@nhm.org)

The Al analogue of nafeasite

Trigonal:  $R\bar{3}2$ ; structure determined

$a = 8.4796(6)$ ,  $c = 26.399(3)$  Å

9.04(20), 7.23(89), 4.33(30), 3.127(100), 3.085(33), 2.809(15), 2.518(15), 1.417(16)

Type material is deposited in the collections of the Natural History Museum of Los Angeles County, 900 Exposition Boulevard, Los Angeles, CA 90007, USA, catalogue number 76282

How to cite: Kampf, A. R., Möhn, G., Ma, C., and Désor, J.: Naalasite, IMA 2023-027, in: CNMNC Newsletter 74, Eur. J. Mineral., 35, <https://doi.org/10.5194/ejm-35-659-2023>, 2023.

#### IMA no. 2023-028

Regerite

$\text{KFe}_6(\text{PO}_4)_4(\text{OH})_7(\text{H}_2\text{O})_6 \cdot 4\text{H}_2\text{O}$

Reg

Kreuzberg pegmatite, Pleystein, Oberpfalz (Upper Palatinate), northeast Bavaria, Germany (49°38'47" N, 12°24'42" E)

Christian Rewitzer, Rupert Hochleitner, Ian E. Grey\*, Anthony R. Kampf, Stephanie Boer, and Colin M. MacRae  
\* E-mail: [ian.grey@csiro.au](mailto:ian.grey@csiro.au)

New structure type

Monoclinic:  $P2_1/c$ ; structure determined

$a = 15.353(3)$ ,  $b = 17.351(4)$ ,  $c = 9.887(2)$  Å,  
 $\beta = 95.26(3)^\circ$

11.52(63), 7.69(100), 5.85(20), 3.877(33), 3.797(28), 2.934(22), 2.543(21), 1.530(19)

Type material is deposited in the collections of the Mineralogical State Collection Munich (SNSB), Theresienstrasse 41, 80333 Munich, Germany, registration number MSM 38039

How to cite: Rewitzer, C., Hochleitner, R., Grey, I. E., Kampf, A. R., Boer, S., and MacRae, C. M.: Regerite, IMA 2023-028, in: CNMNC Newsletter 74, Eur. J. Mineral., 35, <https://doi.org/10.5194/ejm-35-659-2023>, 2023.

#### IMA no. 2023-029

Viskontite

$\text{Pb}_5\text{Cu}_2(\text{SO}_4)_3(\text{SeO}_3)(\text{OH})_6$

Vkt

Western paleo-fumarole field, Mountain 1004, Tolbachik volcano, Kamchatka Peninsula, Far Eastern Federal District, Russia

Igor V. Pekov\*, Sergey N. Britvin, Atali A. Agakhanov, Anna G. Turchkova, and Pavel S. Zhegunov

\* E-mail: [igorpekov@mail.ru](mailto:igorpekov@mail.ru)

The selenite analogue of caledonite

Orthorhombic:  $Pmn2_1$ ; structure determined

$a = 20.6265(4)$ ,  $b = 7.2040(1)$ ,  $c = 6.5220(1)$  Å

6.22(56), 4.73(100), 3.261(62), 3.155(89), 3.109(83), 2.857(31), 2.806(48), 2.074(29)

Type material is deposited in the collections of the Fersman Mineralogical Museum, Russian Academy of Sciences, Leninskiy Prospekt 18-2, Moscow 119071, Russia, registration number 6008/1

How to cite: Pekov, I. V., Britvin, S. N., Agakhanov, A. A., Turchkova, A. G., and Zhegunov, P. S.: Viskontite, IMA 2023-029, in: CNMNC Newsletter 74, Eur. J. Mineral., 35, <https://doi.org/10.5194/ejm-35-659-2023>, 2023.

#### IMA no. 2023-030

Wanguirenite

$\text{Pb}_3\text{Cl}_2(\text{SeO}_3)_2$

Wgk

Baccu Locci mine, near Villaputzu, Sardinia, Italy (39°32'38" N, 9°32'04" E)

Hexiong Yang\*, Xiangping Gu, Ronald B. Gibbs, and Robert T. Downs

\* E-mail: [hyang@arizona.edu](mailto:hyang@arizona.edu)

Known synthetic analogue

Monoclinic:  $C2/c$ ; structure determined

$a = 13.4266(4)$ ,  $b = 5.5826(2)$ ,  $c = 13.0024(4)$  Å,  $\beta = 94.287(2)^\circ$

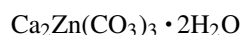
6.478(37), 3.974(57), 3.484(50), 3.146(100), 2.889(28), 2.791(45), 2.706(61), 2.008(43)

Type material is deposited in the collections of the University of Arizona Alfie Norville Gem & Mineral Museum, 115 N Church Ave Ste 121, Tucson, AZ 85701, USA, catalogue no. 22731 (holotype), and the RRUFF Project, deposition no. R220047 (cotype)

How to cite: Yang, H., Gu, X., Gibbs, R. B., and Downs, R. T.: Wangkuirenite, IMA 2023-030, in: CNMNC Newsletter 74, Eur. J. Mineral., 35, <https://doi.org/10.5194/ejm-35-659-2023>, 2023.

### IMA no. 2023-031

Paulišite



PIŠ

Staročeské Lode (first level), adit Ch151, ca. 20 m north of the historical shaft Šafary, Kaňk, near Kutná Hora, central Bohemia, Czech Republic (49°58'43.23" N, 15°16'06.62" E) Jiří Sejkora\*, Cristian Biagioni, Zdeněk Dolníček, Radek Škoda, and Jana Ederová

\* E-mail: [jiri.sejkora@nm.cz](mailto:jiri.sejkora@nm.cz)

New structure type

Monoclinic: *Cc*; structure determined

$a = 14.3484(1)$ ,  $b = 10.624(1)$ ,  $c = 6.3007(6)$  Å,  
 $\beta = 115.205(4)^\circ$

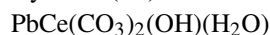
8.226(100), 6.492(99), 4.112(18), 3.246(35), 3.085(19), 2.935(15), 2.797(14), 2.458(20)

Type material is deposited in the collections of the Department of Mineralogy and Petrology, National Museum, Cirkusová 1740, 19300 Prague 9, Czech Republic, catalogue number PIP 9/2023, and the Museo di Storia Naturale, Università di Pisa, Via Roma 79, Calci (PI), Italy, catalogue number 20064

How to cite: Sejkora, J., Biagioni, C., Dolníček, Z., Škoda, R., and Ederová, J.: Paulišite, IMA 2023-031, in: CNMNC Newsletter 74, Eur. J. Mineral., 35, <https://doi.org/10.5194/ejm-35-659-2023>, 2023.

### IMA no. 2023-035

Gysinite-(Ce)



Gys-Ce

Abendröthe Mine, Sankt Andreasberg, Braunlage, Goslar District, Lower Saxony, Germany (51°42'34" N, 10°31'16" E)

Anthony R. Kampf\*, Gerhard Möhn, Chi Ma, Joy Désor, and Manfred Groß

\* E-mail: [akampf@nhm.org](mailto:akampf@nhm.org)

Ancylite group

Orthorhombic: *Pmcn*; structure determined

$a = 5.0780(4)$ ,  $b = 8.6689(6)$ ,  $c = 7.3255(6)$  Å

5.58(35), 4.36(77), 3.728 (100), 3.368(39), 2.980(93), 2.363(62), 2.094(49), 1.959(36)

Type material is deposited in the collections of the Natural History Museum of Los Angeles County, 900 Exposition Boulevard, Los Angeles, CA 90007, USA, catalogue number 76284

How to cite: Kampf, A. R., Möhn, G., Ma, C., Désor, J., and Groß, M.: Gysinite-(Ce), IMA 2023-035, in: CNMNC Newsletter 74, Eur. J. Mineral., 35, <https://doi.org/10.5194/ejm-35-659-2023>, 2023.

## 3 Nomenclature/classification proposals approved in June 2023

### 3.1 IMA 22-K-bis – establishment of the paulkerrite group

(Ian E. Grey, Ferdinando Bosi, William G. Mumme, and Stephanie Boer)

Proposal 22-K-bis is accepted, and the paulkerrite group is defined. The general formula may be written as  $A_2M_1M_2M_3(\text{PO}_4)_4X_2(\text{H}_2\text{O})_{10} \cdot 4\text{H}_2\text{O}$ , where  $A = \text{K}, \text{H}_2\text{O}$ ;  $M = \text{Mg}, \text{Mn}^{2+}, \text{Al}, \text{Fe}^{3+}, \text{Ti}$ ; and  $X = \text{O}, \text{OH}, \text{F}$ . The following species belong to the group: paulkerrite, mantienneite, benyacarite, pleysteinite, and hochleitnerite.

## 4 Nomenclature/classification proposals approved in July 2023

### 4.1 Establishment of the dongchuanite group

(Guowu Li, Ningyue Sun, and Yuan Xue)

The dongchuanite group has been established. The general formula may be written as  $A_4^{\text{VI}}B^{\text{IV}}B_2(T_1\text{O}_4)_2(T_2\text{O}_4)_2Y_2$ . Currently there are the following species: dongchuanite ( $^{\text{VI}}B = \text{Zn}$ ;  $T_1 = \text{P}$ ), cuprodongchuanite ( $^{\text{VI}}B = \text{Cu}$ ;  $T_1 = \text{P}$ ), zheshengite ( $^{\text{VI}}B = \text{Zn}$ ;  $T_1 = \text{As}$ ), and cuprozhesengite ( $^{\text{VI}}B = \text{Cu}$ ;  $T_1 = \text{As}$ ). Invariably in all of them  $A = \text{Pb}$ ,  $^{\text{IV}}B = \text{Zn}$ ,  $T_2 = \text{P}$ , and  $Y = (\text{OH})$ .