



IMA Commission on New Minerals, Nomenclature and Classification (CNMNC) – Newsletter 75

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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 August 2023

IMA no. 2023-036

Ronpetersonite

BaWO₄

Rpt

Gun claim, ca. 5 km southeast of Itsi Lakes and ca. 363 km northeast of Whitehorse, Yukon Territory, Canada (62°50'50" N, 130°00'51" W)

Mary Macquistan*, Lee A. Groat, and Brian R. Joy

* E-mail: mary.macquistan@gmail.com

The Ba analogue of stolzite

Tetragonal: $I4_1/a$; structure determined

$a = 5.6192(4)$, $c = 12.7348(11)$ Å

3.37(100), 3.18(17), 2.81(24), 2.11(28), 1.99(11), 1.87(17), 1.71(14), 1.69(12)

Type material is deposited in the collections of the Royal Ontario Museum, 100 Queens Park, Toronto, ON, M5S 2C6, Canada, catalogue number M60450

How to cite: Macquistan, M., Groat, L. A., and Joy, B. R.: Ronpeteronite, IMA 2023-036, in: CNMNC Newsletter 75, Eur. J. Mineral., 35, <https://doi.org/10.5194/ejm-35-891-2023>, 2023.

IMA no. 2023-037

Andreybulakhite

$\text{Ni}(\text{C}_2\text{O}_4) \cdot 2\text{H}_2\text{O}$

Adb

Nud-II deposit, Monchegorsk pluton, Kola Peninsula, Russia (67°53'14" N, 32°54'04" E)

Oleg S. Vereshchagin*, Sergey N. Britvin, Dmitrii V. Pankin, Marina S. Zelenskaya, Maria G. Krzhizhanovskaya, Maria A. Kuz'mina, Natalia S. Vlasenko, and Olga V. Frank-Kamenetskaya

* E-mail: o.vereshchagin@spbu.ru

The Ni analogue of humboldtine

Monoclinic: $C2/c$; structure determined

$a = 11.8392(5)$, $b = 5.3312(2)$, $c = 9.8357(7)$ Å, $\beta = 126.723(5)^\circ$

4.743(100), 3.946(24), 3.572(8), 2.954(29), 2.646(6), 2.530(12), 2.207(7), 2.066(7)

Type material is deposited in the collections of the Mineralogical Museum, Department of Mineralogy, St. Petersburg State University, Universitetskaya Emb. 7/9, 199034 St. Petersburg, Russia, catalogue number ML OF-978

How to cite: Vereshchagin, O. S., Britvin, S. N., Pankin, D. V., Zelenskaya, M. S., Krzhizhanovskaya, M. G., Kuz'mina, M. A., Vlasenko, N. S., and Frank-Kamenetskaya, O. V.: Andreybulakhite, IMA 2023-037, in: CNMNC Newsletter 75, Eur. J. Mineral., 35, <https://doi.org/10.5194/ejm-35-891-2023>, 2023.

IMA no. 2023-038

Selenojunoite

$\text{Cu}_2\text{Pb}_3\text{Bi}_8\text{Se}_{16}$

Sjnt

Srednyaya Padma mine, Srednyaya Padma deposit, Zaonezhsky peninsula, Medvezhyegorsk District, Republic of Karelia, Russia (62°21'41" N, 35°26'14" E)

Victor M. Gekimyants*, Natalia V. Zubkova, Igor V. Pekov, Atali A. Agakhanov, Dmitry A. Ksenofontov, Oleg B. Lavrov, Vasilii O. Yapaskurt, Leonid A. Pautov, Sergey N. Britvin, Natalia V. Platonova, Pavel Y. Plechov, and Dmitry Y. Pushcharovsky

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The Se analogue of junosite

Monoclinic: $C2/m$; structure determined

$a = 26.98(1)$, $b = 4.095(1)$, $c = 17.353(7)$ Å, $\beta = 127.74(6)^\circ$

3.957(46), 3.540(62), 3.432(26), 3.204(51), 2.958(100), 2.859(22), 2.093(39), 2.046(34)

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 6011/1

How to cite: Gekimyants, V. M., Zubkova, N. V., Pekov, I. V., Agakhanov, A. A., Ksenofontov, D. A., Lavrov, O. B., Yapaskurt, V. O., Pautov, L. A., Britvin, S. N., Platonova, N. V., Plechov, P. Y., and Pushcharovsky, D. Y.: Selenojunoite, IMA 2023-038, in: CNMNC Newsletter 75, Eur. J. Mineral., 35, <https://doi.org/10.5194/ejm-35-891-2023>, 2023.

IMA no. 2023-040

Vadlazarinkovite

$\text{Pd}_8\text{Bi}_{1.5}\text{Te}_{1.25}\text{As}_{0.25}$

Vlz

Konder massif, Ayan-Maya district, Khabarovsk Krai, Russia (57°35'12" N, 134°39'09" E)

Anatoly V. Kasatkin*, Cristian Biagioni, Fabrizio Nestola, Atali A. Agakhanov, Sergey Y. Stepanov, Sergey V. Petrov, and Andrey G. Pilugin

* E-mail: anatoly.kasatkin@gmail.com

Isostructural with mertieite

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

$a = 7.7198(2)$, $c = 43.124(1)$ Å
3.401(11), 2.523(10), 2.306(90), 2.265(15), 2.229(100), 2.036(15), 1.954(11), 1.602(15)

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 6023/1

How to cite: Kasatkin, A. V., Biagioni, C., Nestola, F., Agakhanov, A. A., Stepanov, S. Y., Petrov, S. V., and Pilugin, A. G.: Vadlazarinkovite, IMA 2023-040, in: CNMNC Newsletter 75, Eur. J. Mineral., 35, <https://doi.org/10.5194/ejm-35-891-2023>, 2023.

IMA no. 2023-044

Baiamareite

$\text{Ag}_4\text{Pb}_{12}\text{Fe}_4\text{Sb}_{20}\text{S}_{48}$

Bmt

Săsar underground mine, west-northwest of Baia Mare, Maramureş County, Romania (47°39' N, 23°32' E)

Dan Topa*, Paul Sicher, Frank Keutsch, Uwe Kolitsch, and Chris Stanley

* E-mail: dan.topa@nhm-wien.ac.at

The Fe analogue of uchucchacuaite

Monoclinic: $P2_1/n$; structure determined

$a = 8.7150(5)$, $b = 12.737(1)$, $c = 19.350(1)$ Å,
 $\beta = 90.062(5)^\circ$

3.794(24), 3.791(19), 3.475(28), 3.472(34), 3.307(100),
2.902(40), 2.900(36), 2.179(22)

Type material is deposited in the collections of the Mineralogisch-Petrographische Abteilung, Naturhistorisches Museum, Burgring 7, 1010 Vienna, Austria, catalogue number NHMW-MIN-O2598

How to cite: Topa, D., Sicher, P., Keutsch, F., Kolitsch, U., and Stanley, C.: Baiamareite, IMA 2023-044, in: CNMNC Newsletter 75, Eur. J. Mineral., 35, <https://doi.org/10.5194/ejm-35-891-2023>, 2023.

IMA no. 2023-047

Cloudite

$\text{BaFe}_3^{3+}(\text{PO}_4)(\text{SO}_4)(\text{OH})_6$

Cud

Iron Monarch quarry (180 level), Iron Knob, Middleback Range, Eyre Peninsula, South Australia, Australia (32°44'40" S, 137°08'21" E)

Peter Elliott* and Anthony R. Kampf

* E-mail: peter.elliott@adelaide.edu.au

Alunite supergroup

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

$a = 7.2709(5)$, $c = 17.2799(10)$ Å

5.93(62), 3.089(100), 2.981(25), 2.553(22), 2.304(45),
1.978(33), 1.824(26), 1.543(20)

Type material is deposited in the collections of the South Australian Museum, North Terrace, Adelaide, South Australia 5000, Australia, registration number G35356

How to cite: Elliott, P., and Kampf, A. R.: Cloudite, IMA 2023-047, in: CNMNC Newsletter 75, Eur. J. Mineral., 35, <https://doi.org/10.5194/ejm-35-891-2023>, 2023.

IMA no. 2023-048

Hayyanite

$\text{Cu}_5\text{Ag}_{11}\text{Pb}_{76}\text{Sb}_{71}\text{As}_{17}(\text{As}^{2+})_8\text{S}_{224}$

Hyy

Barika gold deposit, 17 km east of the city Sardasht, Sardasht County, West Azerbaijan Province, Iran

Dan Topa*, Berthold Stoeger, Uwe Kolitsch, Frank Keutsch, and Chris Stanley

* E-mail: dan.topa@nhm-wien.ac.at

Sterryite family

Monoclinic: $P2_1/c$; structure determined

$a = 8.193(4)$, $b = 43.05(2)$, $c = 28.63(1)$ Å, $\beta = 90.08(1)^\circ$
4.17(25), 4.12(19), 3.695(100), 3.305(19), 3.290(81),
3.256(56), 2.980(55), 2.739(21)

Type material is deposited in the collections of the Mineralogisch-Petrographische Abteilung, Naturhistorisches Museum, Burgring 7, 1010 Vienna, Austria, catalogue number NHMW-MIN-O2767

How to cite: Topa, D., Stoeger, B., Kolitsch, U., Keutsch, F., and Stanley, C.: Hayyanite, IMA 2023-048, in: CNMNC Newsletter 75, Eur. J. Mineral., 35, <https://doi.org/10.5194/ejm-35-891-2023>, 2023.

2 New mineral proposals approved in September 2023

IMA no. 2023-049

Buynite

$\text{TlPb}_{14}\text{As}_{17}\text{S}_{40}$

Buyn

Lengenbach quarry, Binntal, Valais, Switzerland (46°21'54" N, 8°13'15" E)

Dan Topa*, Berthold Stoeger, Uwe Kolitsch, Frank Keutsch, Thomas Raber, and Chris Stanley

* E-mail: dan.topa@nhm-wien.ac.at

Closely related to dufrénoysite

Monoclinic: $P2_1$; structure determined

$a = 7.918(1)$, $b = 25.711(4)$, $c = 8.354(1)$ Å, $\beta = 90.626(2)^\circ$

4.123(57), 3.783(100), 3.769(73), 3.009(82), 2.991(79),
2.734(65), 2.711(64), 2.358(67)

Type material is deposited in the collections of the Mineralogisch-Petrographische Abteilung, Naturhistorisches Museum, Burgring 7, 1010 Vienna, Austria, catalogue number NHMW-MIN-O2766

How to cite: Topa, D., Stoeger, B., Kolitsch, U., Keutsch, F., Raber, T., and Stanley, C.: Buynite, IMA 2023-049, in: CNMNC Newsletter 75, Eur. J. Mineral., 35, <https://doi.org/10.5194/ejm-35-891-2023>, 2023.

IMA no. 2023-050

Peterchinite

$\text{Zn}_3\text{Zn}_2(\text{OH})_6\text{As}[\text{O}_3(\text{OH})_3]$

Pcn

Franklin mine, Franklin Mining District, Sussex Co., New Jersey, USA (41°06'56" N, 74°35'15" W)

Travis A. Olds*, Anthony R. Kampf, and Radek Škoda

* E-mail: oldst@carnegiemnh.org

Isostructural with chlorophoenicite

Monoclinic: $C2/m$

$a = 22.95(1)$, $b = 3.21(1)$, $c = 7.28(1)$ Å, $\beta = 106.43(1)^\circ$
6.88(46), 3.704(55), 3.085(38), 2.939(27), 2.593(100),
1.816(22), 1.744(40), 1.473(34)

Type material is deposited in the collections of the Carnegie Museum of Natural History, Forbes Avenue, Pittsburgh, PA 15213, USA, catalogue number 34559, and the Natural His-

tory Museum of Los Angeles County, 900 Exposition Boulevard, Los Angeles, CA 90007, USA, catalogue number 76286

How to cite: Olds, T. A., Kampf, A. R., and Škoda, R.: Peterchinite, IMA 2023-050, in: CNMNC Newsletter 75, Eur. J. Mineral., 35, <https://doi.org/10.5194/ejm-35-891-2023>, 2023.

IMA no. 2023-051

Vallouiseite

$\text{Ag}_3\text{Tl}_{21.5}\text{PbSb}_{63}\text{As}_{41.5}\text{S}_{170}$

Vli

Jas Roux, La Chapelle-en-Valgaudemar, Gap, Hautes-Alpes, Provence-Alpes-Côte d'Azur, France (44°44'45" N, 6°19'18" E)

Dan Topa*, Berthold Stoeger, Uwe Kolitsch, Frank Keutsch, Chris Stanley, and Thomas Raber

* E-mail: dan.topa@nhm-wien.ac.at

Chabournéite group

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

$a = 8.6495(2)$, $b = 28.0728(5)$, $c = 30.3324(7)$ Å, $\alpha = 88.687(2)$, $\beta = 86.759(2)$, $\gamma = 85.676(2)^\circ$
3.9(57), 3.8(48), 3.6(55), 3.3(41), 2.86(57), 2.82(54), 2.73(58), 2.612(49)

Type material is deposited in the collections of the Mineralogisch-Petrographische Abteilung, Naturhistorisches Museum, Burgring 7, 1010 Vienna, Austria, catalogue number NHMW-MIN-O2599

How to cite: Topa, D., Stoeger, B., Kolitsch, U., Keutsch, F., Stanley, C., and Raber, T.: Vallouiseite, IMA 2023-051, in: CNMNC Newsletter 75, Eur. J. Mineral., 35, <https://doi.org/10.5194/ejm-35-891-2023>, 2023.

IMA no. 2023-053

Colchesterite

$\text{Bi}_2^{3+}\text{Mo}_2^{6+}\text{O}_9$

Cchs

From the dumps of the Kingsgate mines, Gough Co., New South Wales, Australia (29°48'50" S, 151°58'26" E)

Peter Elliott* and Anthony R. Kampf

* E-mail: peter.elliott@adelaide.edu.au

New structure type

Monoclinic: $P2_1/n$; structure determined

$a = 8.103(2)$, $b = 8.540(2)$, $c = 11.209(2)$ Å, $\beta = 93.58(3)^\circ$
6.83(20), 3.995(21), 3.560(100), 3.210(27), 3.151(22), 2.657(30), 2.208(19), 1.954(25)

Type material is deposited in the collections of the South Australian Museum, North Terrace, Adelaide, South Australia 5000, Australia, registration number G35359

How to cite: Elliott, P., and Kampf, A. R. (2023) Colchesterite, IMA 2023-053, in: CNMNC Newsletter 75, Eur. J. Mineral., 35, <https://doi.org/10.5194/ejm-35-891-2023>, 2023.

IMA no. 2023-056

Edwindavisite

$\text{Cu}(\text{C}_2\text{O}_4)(\text{NH}_3)$

Ewd

Rowley mine (125-foot level), about 20 km NW of Theba, Maricopa Co., Arizona, USA (33°02'57" N, 113°01'50" W)

Hexiong Yang*, Xiangping Gu, Anthony R. Kampf, Joe Marty, Ronald B. Gibbs, and Robert T. Downs

* E-mail: hyang@arizona.edu

Known synthetic analogue

Orthorhombic: $Pbca$; structure determined

$a = 11.1998(10)$, $b = 9.4307(9)$, $c = 8.3977(7)$ Å
5.608(92), 4.797(82), 4.679(59), 3.623(100), 3.203(25), 2.467(29), 2.402(45), 2.098(31)

Cotype 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. 22732, the RRUFF Project, deposition no. R230005, and the Natural History Museum of Los Angeles County, 900 Exposition Boulevard, Los Angeles, CA 90007, USA, catalogue numbers 76287 and 76288

How to cite: Yang, H., Gu, X., Kampf, A. R., Marty, J., Gibbs, R. B., and Downs, R. T.: Edwindavisite, IMA 2023-056, in: CNMNC Newsletter 75, Eur. J. Mineral., 35, <https://doi.org/10.5194/ejm-35-891-2023>, 2023.

IMA no. 2023-057

Jianmuite

$\text{ZrTi}^{4+}\text{Ti}_5^{3+}\text{Al}_3\text{O}_{16}$

Jmu

Cr-11 orebody, Kangjinla deposit, Luobusa ophiolite, Qusum County, Shannan Prefecture, Tibet, China (29°11' N, 92°18' E; holotype and first cotype); Allende meteorite, Pueblito de Allende, Chihuahua, Mexico (26°58' N, 105°19' W; second cotype)

Roberto Borriello, Fahui Xiong, Chi Ma, Sofia Lorenzon, Enrico Mugnaioli, Jingsui Yang, Xiangzhen Xu, and Edward S. Grew*

* E-mail: esgrew@maine.edu

New structure type

Tetragonal: $I\bar{4}$; structure determined

$a = 10.3675(10)$, $c = 9.8125(10)$ Å
7.127(14), 4.192(9), 2.726(100), 2.453(9), 2.318(17), 1.685(32), 1.639(27), 1.463(9)

Type material is deposited in the collections of the Geological Museum of China, 15 Yangrouhutong, Xisi, West Dis-

trict, Beijing 100034, People's Republic of China, catalogue number GMCTM2023005 (holotype), and the National Museum of Natural History, Smithsonian Institution, 10th St. & Constitution Ave. NW, Washington, DC, 20560, USA (second cotype)

How to cite: Borriello, R., Xiong, F., Ma, C., Lorenzon, S., Mugnaioli, E., Yang, J., Xu, X., and Grew, E. S.: Jianmuite, IMA 2023-057, in: CNMNC Newsletter 75, Eur. J. Mineral., 35, <https://doi.org/10.5194/ejm-35-891-2023>, 2023.

3 Nomenclature/classification proposals approved in August 2023

3.1 IMA 23-G – redefinition of georgeite

(Mike S. Rumsey)

Proposal 23-G is accepted, and georgeite is redefined as an amorphous alpha-phase hydroxide with the generic formula $[\text{Cu}(\text{OH})_{2-x}(\text{H}_2\text{O})_x][\text{CO}_3]_{x/2}$.

3.2 IMA 23-H – revalidation of testibiopalladite

(Louis J. Cabri and Qing-Lin Liang)

Proposal 23-H is accepted, and testibiopalladite, originally described from an unspecified occurrence in China (*Geochimica*, 3, 169–181, 1974), is recognized as a valid mineral species with ideal formula PdSbTe .