



IMA Commission on New Minerals, Nomenclature and Classification (CNMNC) – Newsletter 69

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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 2022

IMA no. 2022-023

Changesite-(Y)
(Ca₈Y)□Fe²⁺(PO₄)₇
Cgs-Y

Northeastern Oceanus Procellarum, the Moon (retrieved from the Chang'e 5 mission)

Ting Li*, Ziyang Li, Zhixin Huang, Jun Zhong, Guang Fan, Dongfa Guo, Mingkuan Qin, Jieli Zhang, Junjie Li, Hanbin Liu, Linfei Qiu, Fenggang Wang, Sheng He, Apeng Yu, Ruiping Liu, Yong Wu, Liumin Deng, Zongyao Tai, Yongzhi He, and Yan Lin

* E-mail: liting_c@126.com

Cerite supergroup

Trigonal: *R*3*c*; structure determined

a = 10.3957(4), *c* = 37.207(2) Å
8.104(17), 6.469(23), 5.198(32), 4.794(24), 3.196(37),
2.868(83), 2.599(100), 1.719(19)

Type material is deposited in the mineralogical collections of the National Astronomical Observatories, Chinese Academy of Sciences, 20A Datun Road, Chaoyang District, Beijing 100101, People's Republic of China. catalogue number CE5C0600YJFM002GP

How to cite: Li, T., Li, Z., Huang, Z., Zhong, J., Fan, G., Guo, D., Qin, M., Zhang, J., Li, J., Liu, H., Qiu, L., Wang, F., He, S., Yu, A., Liu, R., Wu, Y., Deng, L., Tai, Z., He, Y., and Lin, Y.: Changesite-(Y), IMA 2022-023, in: CNMNC Newsletter 69, Eur. J. Mineral., 34, <https://doi.org/10.5194/ejm-34-463-2022>, 2022.

IMA no. 2022-040

Tennantite-(Mn)

$\text{Cu}_6(\text{Cu}_4\text{Mn}_2)\text{As}_4\text{S}_{13}$

Tnt-Mn

Choquelimpie mine, Ticnamar area, Parinacota Province, Arica y Parinacota, Chile (18°19'25" S, 69°16'38" W)

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

* E-mail: keutsch@seas.harvard.edu

Tetrahedrite group

Cubic: $I\bar{4}3m$; structure determined

$a = 10.285(1) \text{ \AA}$

4.199(4), 3.636(4), 2.969(100), 2.749(4), 2.571(17), 1.878(6), 1.818(45), 1.550(23)

Type material is deposited in the collections of the Naturhistorisches Museum Wien, Burgring 7, 1010 Vienna, Austria, catalogue number O 2509

How to cite: Keutsch, F., Kolitsch, U., Topa, F., and Stanley, C.: Tennantite-(Mn), IMA 2022-040, in: CNMNC Newsletter 69, Eur. J. Mineral., 34, <https://doi.org/10.5194/ejm-34-463-2022>, 2022.

IMA no. 2022-041

Hanswilkeite

KFeS_2

Hsw

In abandoned open pit at the Nahal Goror (wadi Goror), Hatrurim basin, Negev Desert, Israel (31°12'22" N, 35°14'37" E)

Mikhail N. Murashko, Sergey N. Britvin*, Maria G. Krzhizhanovskaya, Oleg S. Vereshchagin, Yevgeny Vapnik, Natalia S. Vlasenko, Yulia S. Shelukhina, and Vladimir N. Bocharov

* E-mail: sbritvin@gmail.com

Known synthetic analogue

Monoclinic: $C2/c$; structure determined

$a = 7.0914(5)$, $b = 11.3154(5)$, $c = 5.3992(3) \text{ \AA}$,
 $\beta = 113.244(7)^\circ$

5.68(100), 3.270(31), 3.227(29), 2.921(45), 2.830(6), 2.510(12), 2.198(12), 1.880(10)

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 5862/1

How to cite: Murashko, M. N., Britvin, S. N., Krzhizhanovskaya, M. G., Vereshchagin, O. S., Vapnik, Y., Vlasenko, N. S., Shelukhina, Y. S., and Bocharov, V. N.: Hanswilkeite, IMA 2022-041, in: CNMNC Newsletter 69, Eur. J. Mineral., 34, <https://doi.org/10.5194/ejm-34-463-2022>, 2022.

IMA no. 2022-043

Pohlite

$\text{Pb}_7(\text{IO}_3)(\text{OH})_4\text{Cl}_9$

Poh

La Compañía mine, Sierra Gorda, Antofagasta Province, Antofagasta, Chile (22°56'27" S, 69°20'37" W)

Anthony R. Kampf*, George E. Harlow, and Chi Ma

* E-mail: akampf@nhm.org

New structure type

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

$a = 7.3366(5)$, $b = 9.5130(9)$, $c = 16.243(1) \text{ \AA}$,
 $\alpha = 81.592(7)$, $\beta = 84.955(7)$, $\gamma = 89.565(6)^\circ$
5.77(34), 3.818(91), 3.674(85), 3.399(47), 3.321(38),
1.994(45), 2.486(40), 2.378(100)

Cotype material is deposited in the collections of the American Museum of Natural History, 200 Central Park West, New York, NY 10024, USA, catalogue number 115471, and the Natural History Museum of Los Angeles County, 900 Exposition Boulevard, Los Angeles, CA 90007, USA, catalogue numbers 76251 and 76252

How to cite: Kampf, A. R., Harlow, G. E., and Ma, C.: Pohlite, IMA 2022-043, in: CNMNC Newsletter 69, Eur. J. Mineral., 34, <https://doi.org/10.5194/ejm-34-463-2022>, 2022.

IMA no. 2022-046

Bakakinite

$\text{Ca}_2\text{V}_2\text{O}_7$

Bkkn

Arsenatnaya fumarole, second scoria cone of the northern breakthrough of the great Tolbachik fissure eruption, Tolbachik volcano, Kamchatka Peninsula, Far East, Russia (55°41' N, 160°14' E; 1200 m a.s.l.)

Igor V. Pekov*, Atali A. Agakhanov, Natalia N. Koshlyakova, Natalia V. Zubkova, Vasilii O. Yapaskurt, Sergey N. Britvin, Marina F. Vigasina, Anna G. Turchkova, and Maria A. Nazarova

* E-mail: igorpekov@mail.ru

Known synthetic analogue

Triclinic: $P\bar{1}$

$a = 6.6241(4)$, $b = 6.9231(5)$, $c = 7.0050(4)$ Å,
 $\alpha = 86.885(7)$, $\beta = 63.696(6)$, $\gamma = 83.300(7)^\circ$
 4.643(34), 3.261(18), 3.135(84), 3.106(100), 3.024(25),
 2.959(77), 1.793(19), 1.683(23)

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 5872/1

How to cite: Pekov, I. V., Agakhanov, A. A., Koshlyakova, N. N., Zubkova, N. V., Yapaskurt, V. O., Britvin, S. N., Vigasina, M. F., Turchkova, A. G., and Nazarova, M. A.: Bakakinite, IMA 2022-046, in: CNMNC Newsletter 69, Eur. J. Mineral., 34, <https://doi.org/10.5194/ejm-34-463-2022>, 2022.

IMA no. 2022-047

Zhengminghuaite

$\text{Cu}_6\text{Fe}_3\text{As}_4\text{S}_{12}$

Zmh

Zimudang gold deposit, Guizhou Province, China (25°34'33.6" N, 105°28'53.4" E)

Xuexiang Gu*, Yongmei Zhang, Guang Fan, Ting Li, Shuyi Dong, Yiwei Peng, Yingshuai Zhang, and Ling Li

* E-mail: xuexiang_gu@163.com

Nowackiite isotypic series

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

$a = 13.5373(2)$, $c = 9.235(1)$ Å
 3.079(67), 3.067(100), 2.659(90), 1.882(99), 1.877(84),
 1.606(93), 1.603(83), 1.601(85)

Type material is deposited in the collections of the Geological Museum of China, No. 16, Yangrou Hutong, Xisi, Beijing 100031, People's Republic of China, catalogue number M16136

How to cite: Gu, X., Zhang, Y., Fan, G., Li, T., Dong, S., Peng, Y., Zhang, Y., and Li, L.: Zhengminghuaite, IMA 2022-047, in: CNMNC Newsletter 69, Eur. J. Mineral., 34, <https://doi.org/10.5194/ejm-34-463-2022>, 2022.

2 New mineral proposals approved in September 2022

IMA no. 2022-029

Shijiangshanite

$\text{Pb}_3\text{CaAl}(\text{Si}_5\text{O}_{14})(\text{OH})_3 \cdot 3\text{H}_2\text{O}$

Sjs

Shijiangshan mine, Linxi County, Chifeng, Inner Mongolia, China (43°46'37" N, 118°06'49" E)

Ningyue Sun, Guowu Li*, Chang Li, Hongtao Shen, Yuan Xue, and Jinhua Hao

* E-mail: liguowu@cugb.edu.cn

Chemically and structurally related to wickenburgite

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

$a = 8.7257(3)$, $c = 39.189(3)$ Å

6.587(88), 4.160(96), 3.098(100), 2.859(57), 2.547(24),
 2.244(39), 2.082(28), 1.706(25)

Type material is deposited in the mineralogical collections of the Geological Museum of China, Xisi, Yangrou Hutong No. 15, Xicheng District, Beijing, People's Republic of China, catalogue number M16135 (holotype), and the Crystal Structure Laboratory, China University of Geosciences, Beijing 100083, People's Republic of China, catalogue number SJS-1 (cotype)

How to cite: Sun, N., Li, G., Li, C., Shen, H., Xue, Y., and Hao, J.: Shijiangshanite, IMA 2022-029, in: CNMNC Newsletter 69, Eur. J. Mineral., 34, <https://doi.org/10.5194/ejm-34-463-2022>, 2022.

IMA no. 2022-045

Kayupovaite

$\text{Na}_2\text{Mn}_{10}[(\text{Si}_{14}\text{Al}_2)\text{O}_{38}(\text{OH})_8] \cdot 7\text{H}_2\text{O}$

Kyp

Ushkatyn-III Mn-Fe deposit, near the town of Zhairam, Karagandy Province, Kazakhstan (48°16'06" N, 70°10'43" E)

Oleg S. Vereshchagin*, Sergey N. Britvin, Aleksey I. Brusnitsyn, Anastasia K. Shagova, Elena N. Perova, Igor V. Pekov, Vladimir V. Shilovskikh, Natalia S. Vlasenko, Evgeniya Y. Avdontseva, Natalia V. Platonova, and Vladimir N. Bocharov

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

The Na-dominant analogue of bannisterite

Monoclinic: $C2/c$; structure determined

$a = 24.9149(9)$, $b = 16.4343(5)$, $c = 22.3974(7)$ Å, $\beta = 94.408(3)^\circ$
 12.34(100), 3.45(8), 3.09(8), 2.85(12), 2.642(11), 2.614(7),
 2.414(7), 2.393(6)

Type material is deposited in the collections of the Mineralogical Museum of the Department of Mineralogy, St Petersburg State University, Universitetskaya Emb. 7/9, St Petersburg 199034, Russia, catalogue number ML OF 458

How to cite: Vereshchagin, O. S., Britvin, S. N., Brusnitsyn, A. I., Shagova, A. K., Perova, E. N., Pekov, I. V., Shilovskikh, V. V., Vlasenko, N. S., Avdontseva, E. Y., Platonova, N. V., and Bocharov, V. N.: Kayupovaite, IMA 2022-045, in: CNMNC Newsletter 69, Eur. J. Mineral., 34, <https://doi.org/10.5194/ejm-34-463-2022>, 2022.

IMA no. 2022-050

Zhenruite

$(\text{MoO}_3)_2 \cdot \text{H}_2\text{O}$

Zhr

Freedom no. 2 mine, central mining area, Marysvale volcanic field, Piute Co., Utah, USA (38°29'43" N, 112°12'55" W)
 Xiangping Gu*, Hexiong Yang, and Michael M. Scott

* E-mail: guxp2004@163.com

Known synthetic analogue

Monoclinic: $P2_1/m$; structure determined

$a = 9.6790(6)$, $b = 3.7065(2)$, $c = 7.1029(4)$ Å,
 $\beta = 102.391(5)^\circ$

6.93(68), 4.73(47), 3.565(24), 3.183(100), 3.139(43),
3.003(31), 2.281(20), 2.107(20)

Type material is deposited in the collections of the University of Arizona Alfie Norville Gem & Mineral Museum, 15 N Church Ave, Tucson, AZ 85701, USA, catalogue no. 22720 (holotype), and the RRUFF Project, deposition no. R220010 (cotype)

How to cite: Gu, X., Yang, H., and Scott, M. M.: Zhenruite, IMA 2022-050, in: CNMNC Newsletter 69, Eur. J. Mineral., 34, <https://doi.org/10.5194/ejm-34-463-2022>, 2022.

IMA no. 2022-051

Chinleite-(Nd)

$\text{NaNd}(\text{SO}_4)_2(\text{H}_2\text{O})$

Chi-Nd

Markey mine, Red Canyon, White Canyon District, San Juan Co., Utah, USA ($37^\circ 32' 57''$ N, $110^\circ 18' 08''$ W)

Anthony R. Kampf*, Chi Ma, and Joe Marty

* E-mail: akampf@nhm.org

The Nd analogue of chinleite-(Y)

Trigonal: $P3_221$; structure determined

$a = 6.9540(7)$, $c = 12.8590(9)$ Å
6.02(50), 5.46(70), 3.479(44), 3.014(84), 2.837(100),
2.148(38), 1.859(55), 1.706(27)

Cotype material is deposited in the collections of the Natural History Museum of Los Angeles County, 900 Exposition Boulevard, Los Angeles, CA 90007, USA, catalogue numbers 76253 and 76254

How to cite: Kampf, A. R., Ma, C., and Marty, J.: Chinleite-(Nd), IMA 2022-051, in: CNMNC Newsletter 69, Eur. J. Mineral., 34, <https://doi.org/10.5194/ejm-34-463-2022>, 2022.

IMA no. 2022-052

Auroselenide

AuSe

Ause

Gaching ore occurrence, Maletoyvayam deposit, Koryak Highland, Kamchatka Peninsula, Far East, Russia ($60^\circ 19' 51.87''$ N, $164^\circ 46' 25.65''$ E)

Nadezhda Tolstykh, Anatoly Kasatkin*, Fabrizio Nestola, Anna Vymazalová, Atali Agakhanov, Galina Palyanova, and Vladimir Korolyuk

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

Known synthetic analogue

Monoclinic: $C2/m$

$a = 8.319(1)$, $b = 3.616(1)$, $c = 6.276(2)$ Å, $\beta = 104.54(2)^\circ$

4.015(54), 3.033(25), 2.780(100), 2.172(20), 1.911(16),
1.811(25), 1.653(13), 1.513(14)

Type material is deposited in the collections of Sobolev Institute of Geology and Mineralogy, Siberian Branch of the Russian Academy of Sciences, Central Siberian Geological Museum, Akademika Koptyuga 3, Novosibirsk 630090, Russia, catalogue number IV-6/1

How to cite: Tolstykh, N., Kasatkin, A., Nestola, F., Vymazalová, A., Agakhanov, A., Palyanova, G., and Korolyuk, V.: Auroselenide, IMA 2022-052, in: CNMNC Newsletter 69, Eur. J. Mineral., 34, <https://doi.org/10.5194/ejm-34-463-2022>, 2022.

IMA no. 2022-053

Argentotetrahedrite-(Cd)

$\text{Ag}_6(\text{Cu}_4\text{Cd}_2)\text{Sb}_4\text{S}_{13}$

Attr-Cd

Au–Ag epithermal deposit Rudno nad Hronom, Žarnovica District, Banská Bystrica Region, Slovakia ($48^\circ 23' 47''$ N, $18^\circ 40' 57''$ E)

Tomáš Mikuš*, Juraj Majzlan, Jiří Sejkora, Jozef Vlasáč, Gwladys Steciuk, Jakub Plášil, Christiane Rößler, and Christian Matthes

* E-mail: mikus@savbb.sk

Tetrahedrite group

Cubic: $I\bar{4}3m$; structure determined

$a = 10.65(2)$ Å
3.074(100), 2.846(6), 2.663(26), 2.510(6), 1.944(6),
1.883(48), 1.728(5), 1.606(30)

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 P1P 8/2022

How to cite: Mikuš, T., Majzlan, J., Sejkora, J., Vlasáč, J., Steciuk, G., Plášil, J., Rößler, C., and Matthes, C.: Argentotetrahedrite-(Cd), IMA 2022-053, in: CNMNC Newsletter 69, Eur. J. Mineral., 34, <https://doi.org/10.5194/ejm-34-463-2022>, 2022.

IMA no. 2022-054

Pendevilleite-(Y)

$\text{Mg}_2\text{Y}_3\text{Al}(\text{UO}_2)_2(\text{CO}_3)_7(\text{OH})_6(\text{H}_2\text{O})_{16}$

Pnv-Y

Kamoto East Cu–Co deposit, Kolwezi mining district, Lualaba, Democratic Republic of the Congo ($10^\circ 43' 08.8''$ S, $25^\circ 25' 04.7''$ E)

Jakub Plášil*, Gwladys Steciuk, Radek Škoda, Simon Philippo, and Mael Guennou

* E-mail: plasil@fzu.cz

New structure type

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

$a = 11.9534(6)$, $b = 13.499(2)$, $c = 16.239(1)$ Å,
 $\alpha = 107.183(5)$, $\beta = 92.532(5)$, $\gamma = 110.127(5)^\circ$
 15.3(100), 11.44(23), 10.26(33), 8.35(32), 8.04(28),
 7.16(21), 6.84(17), 6.35(28)

Type material is deposited in the collections of the Musée National d'Histoire Naturelle, Rue Münster 25, Luxembourg 2160, Luxembourg, catalogue number VP230

How to cite: Plášil, J., Steciuk, G., Škoda, R., Philippo, S., and Guennou, M.: Pendevilleite-(Y), IMA 2022-054, in: CNMNC Newsletter 69, Eur. J. Mineral., 34, <https://doi.org/10.5194/ejm-34-463-2022>, 2022.

IMA no. 2019-067b

Deltanitrogen

N

δN

As inclusion within diamonds from the São Luís river alluvial deposits, Juína, Mato Grosso, Brazil ($11^\circ 29' 35''$ S, $58^\circ 58' 14''$ W)

Oliver Tschauner*, Oded Navon, and Christian Schmidt

* E-mail: oliver.tschauner@unlv.edu

Known synthetic analogue

Orthorhombic: $Pccn$; structure determined

$a = 8.442(10)$, $b = 8.136(9)$, $c = 5.974(10)$ Å
 2.661(100), 2.655(40), 2.630 (53), 2.582(47), 2.438(31),
 2.426(55), 2.406(35), 2.369(42)

Type material is deposited in the mineralogical collections of the Royal Ontario Museum, 100 Queens Park, Toronto, ON M5S 2C6, Canada, accession number M59805

How to cite: Tschauner, O., Navon, O., and Schmidt, C.: Deltanitrogen, IMA 2019-067b, in: CNMNC Newsletter 69, Eur. J. Mineral., 34, <https://doi.org/10.5194/ejm-34-463-2022>, 2022.

3 Nomenclature and classification proposals approved in August 2022

Nomenclature of polymorphs and polysomes

New guidelines for the nomenclature of polymorphs and polysomes have been approved by the CNMNC:

- *Polymorphs with different crystal systems.* These are distinguished by the prefixes cubo- (cubic), hexa- (hexagonal), tetra- (tetragonal), trigo- (trigonal), ortho- (orthorhombic), clino- (monoclinic), and anortho- (triclinic).
- *Polymorphs with different crystal systems but showing a pseudosymmetry.* These should show the prefix “pseudo-”.

- *Polymorphs with the same crystal system but different space groups.* These are distinguished by the prefix “para-”. If three or more polymorphs show the same crystal system but different space groups, the space group notation may be added as a suffix, but such a nomenclature should be avoided if possible.
- *Polymorphs with the same space group.* These are distinguished by the prefix “para-”.
- *Minerals with polymorph suffixes but with different chemical compositions.* These cannot be considered true polymorphs, so we recommend using the prefix “meta-”, which indicates a close but significantly different chemical composition.
- *Polysomatic symbols* have to be placed as a suffix, which indicates the number and types of modules which alternate in the structure as in the högbomite supergroup, or as prefixes as in the sartorite homologous series.

These recommendations have to be applied for future new mineral proposals, but the modifications of historical and well-established names have to pass through the CNMNC for approval. In order to be consistent with the new guidelines, 25 mineral names were modified: domeykite- β becomes trigodomeykite, fergusonite-(Y)- β becomes clinofergusonite-(Y), fergusonite-(Ce)- β becomes clinofergusonite-(Ce), fergusonite-(Nd)- β becomes clinofergusonite-(Nd), ice-VII becomes cubo-ice, roselite- β becomes anorthoroseelite, sulfur- β becomes clinosulfur, mertieite-II becomes mertieite, mertieite-I becomes pseudomertieite, uranophane- α becomes uranophane, uranophane- β becomes parauranophane, gersdorffite- $P2_13$ becomes gersdorffite, gersdorffite- $Pa3$ becomes paragersdorffite, gersdorffite- $Pca2_1$ becomes orthogersdorffite, betalomonosovite becomes paralomonosovite, lammerite- β becomes paralammerite, nováčekite-I becomes hydronováčekite, nováčekite-II becomes nováčekite, halloysite- 7Å becomes halloysite, halloysite- 10Å becomes hydrohalloysite, metauranocircite-I becomes metauranocircite, taimyrite-I becomes taimyrite, uranocircite-II becomes uranocircite, andorite IV becomes quatrandorite, and andorite VI becomes senandorite.

4 Nomenclature and classification proposals approved in September 2022

4.1 Voting proposal 22-E: redefinition of braggite and vysotskite

Proposal 22-E is accepted. The ideal formula for braggite is redefined as PdPt_3S_4 . The ideal formula for vysotskite is redefined as PdS . The ideal formula of cooperite (PtS) remains as currently given in the IMA List of Minerals.

4.2 Uranotungstite: revised formula

Recently, a paper was published (*American Mineralogist*, 107, 1709–1716, 2022), in which the chemical formula of uranotungstite was revised based on its crystal structure determination. From these data, collected on the type material, it is shown that the species is not Fe^{2+} -dominant, as in the original description (*Tschermaks Mineralogische und Petrographische Mitteilungen*, 34, 25–34, 1985), but Ba-dominant. Consequently, in agreement with the new chemical and structural data obtained on this mineral and with the dominant constituent rule, the formula of uranotungstite is modified from $(\text{Fe}^{2+}, \text{Ba}, \text{Pb})(\text{UO}_2)_2(\text{WO}_4)(\text{OH})_4 \cdot 12\text{H}_2\text{O}$ to $\text{Ba}(\text{UO}_2)_2\text{W}_2\text{O}_8(\text{OH})_2 \cdot \text{H}_2\text{O}$. This is an executive decision taken by the CNMNC officers.