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CNMNC Newsletter

IMA Commission on New Minerals, Nomenclature and Classification (CNMNC) – Newsletter 84

Ferdinando Bosi¹ (Chairman, CNMNC), Frédéric Hatert² (Vice-Chairman, CNMNC), Marco Pasero³ (Vice-Chairman, CNMNC) and Stuart J. Mills⁴ (Secretary, CNMNC)

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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 powder X-ray 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 *Mineralogical Magazine* 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

(L1)New mineral proposals approved in February 2025

IMA No. 2024-045

Fengruiite

$[\text{Ag}_6\text{Sb}_2\text{S}_7][\text{Ag}_9\text{CuS}_2\text{Te}_2]$

Fen

Haopinggou deposit, about 60 km southwest of Luoning County, Henan Province, China

(34°10'54" N, 111°16'55" E)

Yongfei Tian, Guowu Li, Ningyue Sun, Min Liu*, Jingwen Mao, Yunpeng Dong, Peng Liu, Wei Jian, Wei Yao and Huishou Ye

*E-mail: liuminhello@163.com

Pearceite-polybasite group

Trigonal: $P\bar{3}m1$; structure determined

$a = 7.6087(9)$, $c = 11.970(2)$ Å

5.987(18), 3.177(17), 2.977(81), 2.873(100), 2.531(23), 2.344(21), 2.097(20), 1.897(21)

Type material is deposited in the collections of the Geological Museum of China, No. 15, Yangrou Hutong, Xisi, Xicheng District, Beijing, People's Republic of China, catalogue number GMCTM2024004

How to cite: Tian, Y., Li, G., Sun, N., Liu, M., Mao, J., Dong, Y., Liu, P., Jian, W., Yao, W. and Ye, H. (2025) Fengruiite, IMA 2024-045. CNMNC Newsletter 84, *Mineralogical Magazine*, 89, <https://10.1180/mgm.2025.22>

IMA No. 2024-069

Sigogglinite

$[\text{Pb}_6\text{Zn}(\text{OH})_8](\text{SO}_4)_3 \cdot 3\text{H}_2\text{O}$

Sgog

Redmond mine, Haywood Co., North Carolina, USA (35°40'55" N, 83°00'56" W)

Christopher Emproto*, Travis A. Olds, Anthony R. Kampf, Jason B. Smith, John M. Hughes and Chi Ma

*E-mail: emprotoc@carnegiemnh.org

New structure type

Monoclinic: $P2_1/n$; structure determined

$a = 14.8109(2)$, $b = 9.1360(1)$, $c = 17.3693(3)$ Å, $\beta = 92.879(1)^\circ$

7.349(76), 5.854(100), 3.800(82), 3.535(83), 2.946(67), 2.907(54), 2.781(58), 2.580(56)

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 76449

How to cite: Emproto, C., Olds, T.A., Kampf, A.R., Smith, J.B., Hughes, J.M. and Ma, C. (2025)

Sigogglinite, IMA 2024-069. CNMNC Newsletter 84, *Mineralogical Magazine*, 89,

<https://10.1180/mgm.2025.22>

IMA No. 2024-071

Blueridgeite

$[\text{Pb}_8\text{Zn}_3\text{Cu}^{2+}(\text{OH})_{16}](\text{SO}_4)_2(\text{S}_2\text{O}_3)_2 \cdot 2\text{H}_2\text{O}$

Blrg

Redmond mine, Haywood Co., North Carolina, USA (35°40'55" N, 83°00'56" W)

Christopher Emproto*, Travis A. Olds, Anthony R. Kampf, Jason B. Smith, John M. Hughes and Chi Ma

*E-mail: emprotoc@carnegiemnh.org

New structure type

Monoclinic: $P2_1/c$; structure determined

$a = 12.1530(7)$, $b = 14.4758(7)$, $c = 11.0034(6)$ Å, $\beta = 116.212(3)^\circ$

5.449(90), 4.899(52), 4.653(48), 3.397(52), 3.097(100), 2.991(30), 2.707(69), 2.421(33)

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 76450,

76451 and 76452

How to cite: Emproto, C., Olds, T.A., Kampf, A.R., Smith, J.B., Hughes, J.M. and Ma, C. (2025) Blueridgeite, IMA 2024-071. CNMNC Newsletter 84, *Mineralogical Magazine*, 89, <https://10.1180/mgm.2025.22>

IMA No. 2024-072

Tomcampbellite

$[\text{KCl}][\text{Fe}^{2+}_{14}(\text{OH})_6(\text{PO}_4)_6(\text{PO}_3\text{OH})_2]$

Tcp

Dan Patch mine, near Keystone, Pennington Co., South Dakota, USA (43°53'40" N, 103°26'20" W)

Hexiong Yang*, Guang Fan, Anthony R. Kampf, Thomas A. Loomis, Ronald B. Gibbs and Robert T.

Downs

*E-mail: hyang@arizona.edu

New structure type

Monoclinic: $C2/m$; structure determined

$a = 16.4176(6)$, $b = 6.2747(2)$, $c = 16.6729(6)$ Å, $\beta = 115.405(1)^\circ$

7.516(43), 3.074(100), 2.883(82), 2.755(45), 2.707(45), 1.866(32), 1.664(33), 1.571(38)

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. 22739 (holotype), and the RRUFF Project, deposition no. R240012 (cotype)

How to cite: Yang, H., Fan, G., Kampf, A.R., Loomis, T.A., Gibbs, R.G. and Downs, R.T. (2025) Tomcampbellite, IMA 2024-072. CNMNC Newsletter 84, *Mineralogical Magazine*, 89, <https://10.1180/mgm.2025.22>

IMA No. 2024-073

Lucasite-(La)

$\text{LaTi}_2\text{O}_5(\text{OH})$

Lca-La

Ermakovskaya-7 kimberlite body, Terskii Coast, Kola Peninsula, Russia (66°25'42" N, 35°35'43" E)

Nester Korolev*, Evgeniy N. Kozlov, Ekaterina S. Kiseeva, Konstantin Glazyrin, Yaakov Weiss, Mikhail Y. Sidorov, Vladimir N. Bocharov and Sergey V. Krivovichev

*E-mail: korolev.nm@gmail.com

The lanthanum analogue of lucasite-(Ce)

Monoclinic: $I2/a$; structure determined

$a = 5.1811(7)$, $b = 8.828(5)$, $c = 9.806(5)$ Å, $\beta = 93.11(2)^\circ$

6.556(20), 3.378(100), 3.278(54), 3.224(81), 3.211(27), 2.818(20), 2.586(19), 2.557(19)

Type material is deposited in the collections of the American Museum of Natural History, 200 Central Park West, New York, NY 10024, USA, catalogue no. AMNH#115530

How to cite: Korolev, N., Kozlov, E.N., Kiseeva, E.S., Glazyrin, K., Weiss, Y., Sidorov, M.Y., Bocharov, B.N. and Krivovichev, S.V. (2025) Lucasite-(La), IMA 2024-073. CNMNC Newsletter 84, *Mineralogical Magazine*, 89, <https://10.1180/mgm.2025.22>

IMA No. 2024-075

Lechnerite

$\text{Ag}_{10}\text{Cu}_4\text{HgPb}_{33}\text{Sb}_{58}\text{S}_{128}$

Lhn

Monte Arsiccio mine (Sant'Olga tunnel), Sant'Anna di Stazzema, Lucca Province, Tuscany, Italy (43°58' N, 10°17' E)

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

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

New structure type

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

$a = 8.1516(9)$, $b = 25.545(3)$, $c = 28.899(3)$ Å, $\alpha = 74.665(8)$, $\beta = 85.665(8)$, $\gamma = 80.538(9)^\circ$
3.491(100), 3.351(66), 3.275(63), 3.174(75), 2.942(65), 2.872(94), 2.854(97), 2.038(98)

Type material is deposited in the collections of the Mineralogisch-Petrographische Abteilung, Naturhistorisches Museum, Burgring 7, A-1010 Wien, Austria, catalogue number O 3264

How to cite: Topa, D., Stoeger, B., Keutsch, F. and Stanley, C. (2025) Lechnerite, IMA 2024-075. CNMNC Newsletter 84, *Mineralogical Magazine*, 89, <https://10.1180/mgm.2025.22>

IMA No. 2024-077

Johnjamborite

$\text{Pb}_{14}\text{Sb}_{8.5}\text{As}_{7.5}\text{S}_{38}$

Jjb

Madoc, Ontario, Canada

Dan Topa*, Berthold Stoeger, Alexander Virovets, Frank Keutsch and Chris Stanley

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

Sartorite homologous series

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

$a = 31.7535(1)$, $b = 8.39262(3)$, $c = 50.2412(2)$ Å, $\alpha = 90.0281(3)$, $\beta = 102.2277(3)$, $\gamma = 89.7075(3)^\circ$

3.804(60), 3.801(56), 3.273(99), 3.036(53), 2.928(52), 2.380(61), 2.378(59), 2.098(100)

Type material is deposited in the collections of the Canadian Museum of Nature, 240 McLeod Street, Ottawa, ON K2P 2R1, Canada, catalogue number CMNMC 92311 (holotype), and the Mineralogisch-Petrographische Abteilung, Naturhistorisches Museum, Burgring 7, A-1010 Wien, Austria, catalogue number O 3114 (cotype)

How to cite: Topa, D., Stoeger, B., Virovets, A., Keutsch, F. and Stanley, C. (2025) Johnjamborite, IMA 2024-077. CNMNC Newsletter 84, *Mineralogical Magazine*, 89, <https://10.1180/mgm.2025.22>

IMA No. 2024-079

Sugarwhiteite

Pb₂Te₅O₁₂

Sgw

Moctezuma mine, Moctezuma, Sonora, Mexico (29°48' N, 109°40' W)

Hexiong Yang*, Anthony R. Kampf, Robert A. Jenkins, Ronald B. Gibbs and Robert T. Downs

*E-mail: hyang@arizona.edu

New structure type

Monoclinic: $P2_1/c$; structure determined

$a = 13.9531(2)$, $b = 7.4352(1)$, $c = 12.3446(2)$ Å, $\beta = 105.1575(6)^\circ$

3.360(62), 3.165(100), 3.047(74), 2.866(32), 2.697(26), 2.007(20), 1.833(23), 1.690(31)

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. 22740 (holotype), and the RRUFF Project, deposition no. R240013 (cotype)

How to cite: Yang, H., Kampf, A.R., Jenkins, R.A., Gibbs, R.G. and Downs, R.T. (2025)

Sugarwhiteite, IMA 2024-079. CNMNC Newsletter 84, *Mineralogical Magazine*, 89, <https://10.1180/mgm.2025.22>

(L1)New mineral proposals approved in March 2025

IMA No. 2024-074

Stillwellite-(La)

LaBSiO₅

Swl-La

Gejiu intrusion, Honghe Hani and Yi Autonomous Prefecture, Yunnan Province, China (23°29'40" N, 103°04'41" E)

Kai Qu*, Guochen Dong, Guang Fan, Xiangping Gu, Junping Ren, Alei Gu, Hang Zhang and Yanjuan Wang

*E-mail: qukai_tcg@foxmail.com

The lanthanum analogue of stillwellite-(Ce)

Trigonal: $P3_221$; structure determined

$a = 6.9061(5)$, $c = 6.7549(5)$ Å

4.451(100), 3.465(57), 2.951(97), 2.749(17), 2.427(17), 2.254(28), 2.148(28), 1.885(37)

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 GMCTM2024010

How to cite: Qu, K., Dong, G., Fan, G., Gu, X., Ren, J., Gu, A., Zhang, H. and Wang, Y. (2025)

Stillwellite-(La), IMA 2024-074. CNMNC Newsletter 84, *Mineralogical Magazine*, 89, <https://10.1180/mgm.2025.22>

IMA No. 2024-076

Morleyite

$\text{Ag}_2\text{CuPb}_{25}\text{Sb}_{24}\text{As}_4\text{S}_{68.5}$

Myt

Taylor Pit, Madoc, Hastings County, Ontario, Canada (44°30'07" N, 77°27'59" W)

Dan Topa*, Berthold Stoeper, Frank Keutsch and Chris Stanley

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

New structure type

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

$a = 8.2568(2)$, $b = 27.8758(7)$, $c = 29.9824(7)$ Å, $\alpha = 64.626(2)$, $\beta = 81.941(2)$, $\gamma = 89.565(2)^\circ$
3.983(30), 3.484(100), 3.421(95), 3.305(68), 2.897(38), 2.894(39), 2.852(27), 2.833(33)

Type material is deposited in the collections of the Canadian Museum of Nature, 240 McLeod Street, Ottawa, Canada, catalogue number CMNMC 92312 (holotype), and the Mineralogisch-Petrographische Abteilung, Naturhistorisches Museum, Burgring 7, A-1010 Wien, Austria, catalogue number O 3113 (cotype)

How to cite: Topa, D., Stoeper, B., Keutsch, F. and Stanley, C. (2025) Morleyite, IMA 2024-076. CNMNC Newsletter 84, *Mineralogical Magazine*, 89, <https://10.1180/mgm.2025.22>

IMA No. 2024-080

Ferroåkermanite

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

Fålk

Hatrurim Basin, between Zohar and Halamish wadies, Hatrurim Complex, Israel (31°21'25" N, 35°04'22" E)

Rafał Juroszek*, Biljana Krüger, Yevgeny Vapnik and Evgeny Galuskin

*E-mail: rafal.juroszek@us.edu.pl

Melilite group

Tetragonal: $P\bar{4}2_1m$; structure determined

$a = 7.7813(7)$, $c = 5.0114(5)$ Å

5.011(25), 3.705(19), 3.073(78), 2.858(100), 2.461(53), 2.304(14), 1.756(20), 1.740(16)

Type material is deposited in the collections of the Natural History Museum Mainz, State Collection of Natural History, Rhineland-Palatinate, Reichklarastrasse 10, D-55116 Mainz, Germany, inventory number M_202400054

How to cite: Juroszek, R., Krüger, B., Vapnik, Y. and Galuskin, E. (2025) Ferroåkermanite, IMA 2024-080. CNMNC Newsletter 84, *Mineralogical Magazine*, 89, <https://10.1180/mgm.2025.22>

IMA No. 2024-081

Morningstarite

$\text{Na}(\text{W}_{2.67}\text{Fe}^{3+}_{0.33})\text{O}_9 \cdot \text{H}_2\text{O}$

Mnsr

From the dumps of the Morning Star extended workings, Bamford Hill mines, Bamford, Mareeba Shire, Queensland, Australia (17°18'35" S, 144°55'27" E)

Peter Elliott, Ian E. Grey*, Anthony R. Kampf and Colin M. MacRae

*E-mail: ian.grey@csiro.au

Isostructural with wumuite

Hexagonal: $P6/mmm$; structure determined

$a = 7.3012(2)$, $c = 3.8963(1)$ Å

6.318(21), 3.912(46), 3.169(100), 2.463(43), 1.830(33), 1.661(43), 1.586(19), 1.468(18)

Type material is deposited in the collections of the South Australian Museum, North Terrace, Adelaide 5000, South Australia, Australia, catalogue number G35466 (holotype), and the Natural History Museum of Los Angeles County, 900 Exposition Boulevard, Los Angeles, CA 90007, USA, catalogue number 76453 (cotype)

How to cite: Elliott, P., Grey, I.E., Kampf, A.R. and MacRae, C.M. (2025) Morningstarite, IMA 2024-081. CNMNC Newsletter 84, *Mineralogical Magazine*, 89, <https://10.1180/mgm.2025.22>

IMA No. 2024-082

Guastoniite-(Y)

$\text{Pb}_4(\text{YCa})(\text{Si}_8\text{B}_4\text{O}_{28})\text{F}$

Gsn-Y

Moraine of Dara-i-Pioz glacier, Alai mountain range, Tien Shan, Rashtskiy (formerly Garmskiy) district, Tajikistan (39°30' N, 70°40' E)

Atali A. Agakhanov, Fabrizio Nestola*, Elena Sokolova, Radek Škoda, Leonid A. Pautov, Vladimir Y. Karpenko, Frank C. Hawthorne, Igor V. Pekov, Anatoly V. Kasatkin, Vitaliya A. Agakhanova, Sergey N. Britvin and Simone Molinari

*E-mail: fabrizio.nestola@unipd.it

Hyalotekite group

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

$a = 11.114(2)$, $b = 10.818(2)$, $c = 11.133(2)$ Å, $\alpha = 90.43(3)$, $\beta = 90.03(3)$, $\gamma = 90.01(3)^\circ$
7.76(100), 7.46(63), 3.74(95), 3.70(60), 3.48(68), 3.40(54), 2.93(40), 2.59(37)

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 6206/1

How to cite: Agakhanov, A.A., Nestola, F., Sokolova, E., Škoda, R., Pautov, L.A., Karpenko, V.Y., Hawthorne, F.C., Pekov, I.V., Kasatkin, A.V., Agakhanova, V.A., Britvin, S.N. and Molinari, S. (2025) Guastoniite-(Y), IMA 2024-082. CNMNC Newsletter 84, *Mineralogical Magazine*, 89, <https://10.1180/mgm.2025.22>

IMA No. 2024-083

Macivorite

$(\text{NH}_4)_3\text{Al}_5(\text{PO}_3\text{OH})_6(\text{PO}_4)_2 \cdot 18\text{H}_2\text{O}$

Mvr

Skipton Caves, Mount Widderin, Skipton, Corangamite Shire, Victoria, Australia (37°44'12" S, 143°20'52" E)

Peter Elliott*, Anthony R. Kampf and Benjamin P. Wade

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

The ammonium analogue of taranakite

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

$a = 8.785(1)$, $c = 95.207(7)$ Å

15.86(100), 7.88(45), 7.45(39), 5.97(27), 4.36(32), 3.854(29), 3.157(23), 2.640(22)

Type material is deposited in the collections of the South Australian Museum, North Terrace, Adelaide 5000, South Australia, Australia, registration number G35467

How to cite: Elliott, P., Kampf, A.R. and Wade, B.P. (2025) Macivorite, IMA 2024-083. CNMNC Newsletter 84, *Mineralogical Magazine*, 89, <https://10.1180/mgm.2025.22>

IMA No. 2024-084

Magselite

$[\text{Mg}(\text{H}_2\text{O})_6](\text{Se}^{4+}\text{O}_3)$

Mgsl

Pickett Corral mine (Pickett Corral #4), Montrose Co., Colorado, USA (38°11'50.0" N, 108°50'30.0" W)

Christopher Emproto*, Travis A. Olds, Anthony R. Kampf, Chi Ma and Joe Marty

*E-mail: emprotoc@carnegiemnh.org

Known synthetic analogue

Trigonal: $R3$; structure determined

$a = 8.9663(2)$, $c = 8.9400(3)$ Å

5.862(27), 4.483(100), 3.874(75), 2.931(40), 2.788(52), 2.453(38), 1.940(33), 1.778(32)

Type material is deposited in the collections of the Carnegie Museum of Natural History, Forbes Avenue, Pittsburgh, PA 15213, USA, catalogue number CM34763

How to cite: Emproto, C., Olds, T.A., Kampf, A.R., Ma, C. and Marty, J. (2025) Magselite, IMA 2024-084. CNMNC Newsletter 84, *Mineralogical Magazine*, 89, <https://10.1180/mgm.2025.22>

IMA No. 2024-086

Anatolygurbanovite

$\text{SrCa}_2\text{Si}_3\text{O}_9$

Agb

Xenolith no. 7, Upper Chegem Caldera, North Caucasus, Kabardino-Balkaria, Russia (43°17' N, 43°06' E)

Evgeny Galuskin*, Joachim Kusz, Irina Galuskina, Maria Książek, Viktor Gazeev and Grzegorz Zieliński

*E-mail: evgeny.galuskin@us.edu.pl

Margarosanite group

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

$a = 6.7085(6)$, $b = 9.4767(9)$, $c = 6.7041(6)$ Å, $\alpha = 70.100(8)$, $\beta = 102.834(7)$, $\gamma = 96.844(7)^\circ$
3.192(35), 3.153(28), 3.115(30), 3.043(58), 3.032(53), 3.021(36), 2.967(100), 2.621(31)

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 6208/1

How to cite: Galuskin, E., Kusz, J., Galuskina, I., Książek, M., Gazeev, V. and Zieliński, G. (2025) Anatolygurbanovite, IMA 2024-086. CNMNC Newsletter 84, *Mineralogical Magazine*, 89, <https://10.1180/mgm.2025.22>

IMA No. 2024-088

Cadsulfohite

$\text{Cd}_2(\text{SO}_4)(\text{OH})_2$

Cdso

Tsumeb mine, Oshikoto, Namibia (19°13'37" S, 17°43'39" E)

Christopher Emproto*, Travis A. Olds, Anthony R. Kampf, Chi Ma and Joy Désor

*E-mail: emprotoc@carnegiemnh.org

Known synthetic analogue

Monoclinic: $P2_1/n$; structure determined

$a = 6.9035(6)$, $b = 7.5844(7)$, $c = 9.9836(10)$ Å, $\beta = 97.225(5)^\circ$
5.070(44), 4.685(59), 4.328(26), 3.780(21), 3.065(45), 3.006(100), 2.665(44), 2.527(28)

Type material is deposited in the collections of the Mineralogical & Geological Museum, Harvard University, 26 Oxford St, Cambridge, MA 02138, USA, catalogue number MGMH#2024.11

How to cite: Emproto, C., Olds, T.A., Kampf, A.R., Ma, C. and Désor, J. (2025) Cadsulfohite, IMA 2024-088. CNMNC Newsletter 84, *Mineralogical Magazine*, 89, <https://10.1180/mgm.2025.22>

IMA No. 2024-089

Brunovskyite

$\text{NaZrSi}_2\text{O}_6(\text{OH})$

Bvs

Mt. Takhtarvumchorr, Khibiny alkaline massif, Kola Peninsula, Russia (67°39'55.9" N, 33°33'15.9" E)

Taras L. Panikorovskii*, Victor N. Yakovenchuk, Ayya V. Bazai, Vladimir N. Bocharov, Olga F. Goychuk and Sergey V. Krivovichev

*E-mail: t.panikorovskii@ksc.ru

Chemically related to keldyshite

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

$a = 5.5471(7)$, $b = 7.1799(8)$, $c = 7.6083(11)$ Å, $\alpha = 64.93(1)$, $\beta = 81.72(1)$, $\gamma = 89.23(1)^\circ$
6.50(94), 6.22(47), 4.31(28), 3.94(73), 3.41(98), 3.03(100), 2.976(77), 2.744(36)

Type material is deposited in the collections of the Mineralogical Museum, St. Petersburg State University, 7-9 Universitetskaya Emb., St. Petersburg 199034, Russia, catalogue no. 19657

How to cite: Panikorovskii, T.L., Yakovenchuk, V.N., Bazai, A.B., Bocharov, V.N., Goychuk, O.F. and Krivovichev, S.V. (2025) Brunovskyite, IMA 2024-089. CNMNC Newsletter 84, *Mineralogical Magazine*, 89, <https://10.1180/mgm.2025.22>

IMA No. 2024-091

Xianhuaite-(Ce)

$K_2CeNb_5O_{15}$

Xhu-Ce

Bayan Obo deposit, East Pit, Inner Mongolia, China (41°48'01" N, 109°59'39" E)

Bo Yang, Li Yang, Yuan Xue, Ningyue Sun, Guowu Li*, Junfang Yu, Guoying Yan, Jianyong Liu, Yonggang Zhao, Wenxiang Meng, Zhenyu Chen, Lei Chen, Ze Liu, Zhao Yan and Xin Ao

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New structure type

Tetragonal: $P4/mbm$; structure determined

$a = 12.5355(4)$, $c = 3.9213(2)$ Å
3.915(25), 3.469(28), 3.208(61), 3.034(53), 2.931(40), 2.785(100), 2.595(24), 1.960(44)

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 no.

GMCTM2024012 (holotype), and the Crystal Structure Laboratory, China University of Geosciences, Beijing 100083, People's Republic of China, catalogue no. BYEB-3 (cotype)

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(L1)Nomenclature/classification proposals approved in March 2025

(L2)IMA 24-F: Definition of neotype material for simonellite, $C_{19}H_{24}$

(Daniela Mauro and Cristian Biagioni)

Proposal 24-F is accepted, and a neotype sample is defined for simonellite. The type locality is the lignite deposit of Fognano, in the Montepulciano municipality, Siena Province, Tuscany, Italy.

Neotype material is deposited in the mineralogical collection of the Museo di Storia Naturale of the University of Pisa, Italy, under catalogue number 20079.

(L1)Other issues

(L2)Not yet published new minerals

We list here those new minerals that have been approved by the CNMNC for more than 5 years and have not yet been published. According to our guidelines any new mineral should be published within 2 years of its approval, otherwise it may be withdrawn. Authors are encouraged to fill the gaps in the mineralogical systematics for which they are responsible as soon as possible. The entries are sorted by date and have the following format:

Date of approval: mineral (corresponding author)

Dec 2012: erzwiesite (Dan Topa)

Dec 2012: lopatkaite (Dan Topa)

Feb 2013: arsenquatrandorite (Dan Topa)

Nov 2013: caesiumpharmacosiderite (Stuart J. Mills)

Dec 2013: strontiopharmacosiderite (Stuart J. Mills)

Mar 2014: thalliumpharmacosiderite (Mike Rumsey)

May 2014: spaltiite (Stefan Graeser)

Jul 2014: keutschite (Dan Topa)

Jul 2014: znamenskyite (Ilya V. Chaplygin)

Nov 2014: hedegaardite (Thomas Witzke)

Nov 2014: lefontite (Hexiong Yang)

Aug 2015: lislkirchnerite (Herta S. Effenberger)

Jan 2016: marklite (Jakub Plášil)

Jan 2016: zincobriartite (Andy McDonald)

Feb 2016: verbierite (Nicolas Meisser)

Mar 2016: kalgoorlieite (Kirsten Rempel)

Apr 2016: braunerite (Jakub Plášil)

Jun 2016: marinaite (Ilya V. Chaplygin)

Aug 2016: argentodufrenoyite (Dan Topa)
Aug 2016: incoisartite (Dan Topa)
Aug 2016: fleisitalite (Hans-Peter Bojar)
Aug 2016: khorixasite (Stuart J. Mills)
Sep 2016: molinelloite (Uwe Kolitsch)
Nov 2016: magnesiohatertite (Igor V. Pekov)
Mar 2017: lagalyite (Thomas Witzke)
Apr 2017: betpakdalite-FeFe (Stuart J. Mills)
Aug 2017: gorbunovite (Atali A. Agakhanov)
Aug 2017: zoharite (Irina O. Galuskina)
Oct 2017: dekatriasartite (Dan Topa)
Nov 2017: wuyanzhiite (Xiangping Gu)
May 2018: achyrophanite (Igor V. Pekov)
Apr 2018: vaniniite (Nicolas Meisser)
Oct 2018: ekebergite (Johan Kjellman)
Oct 2018: ramaccioniite (Christian Lengauer)
Nov 2018: escheite (Fernando Cámara)
Jan 2019: llantenite (Christian Lengauer)
Apr 2019: scorticoite (Cristian Biagioni)
Jun 2019: gmalimite (Irina O. Galuskina)
Jun 2019: sangenaroite (Dan Topa)
Oct 2019: drechslerite (Dan Topa)
Oct 2019: esdanaite-(Ce) (Thomas E. Gore)
Oct 2019: grokhovskyite (Victor V. Sharygin)
Oct 2019: polyarsite (Igor V. Pekov)
Nov 2019: suenoite (Cristian Biagioni)