



IMA Commission on New Minerals, Nomenclature and Classification (CNMNC) – Newsletter 93

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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 2026

IMA no. 2023-077c

Proxicosahedrite

$\text{Al}_{52}\text{Cu}_{30}\text{Fe}_{11}\text{Si}_7$

Pxd

In a micro-spherule of a micrometeorite found on top of Mt. Gariglione, about 65 km north of the city of Catanzaro, Calabria, Italy (39°07'55" N, 16°40'12" E)

Giovanna Agrosi, Enrico Mugnaioli, Guangming Cheng, Nan Yao, Johan Villeneuve, and Luca Bindi*

* E-mail: luca.bindi@unifi.it

Known synthetic analogue

Cubic: $Pm\bar{3}$; structure determined

$a = 12.3443(4) \text{ \AA}$

3.904(11), 3.424(22), 3.299(12), 2.117(61), 2.057(25), 2.002(100), 1.952(8), 1.247(31)

Type material is deposited in the collections of the Museo di Scienze della Terra, University of Bari, Via Orabona 4, 70125 Bari, Italy, registration number 19/nm

How to cite: Agrosi, G., Mugnaioli, E., Cheng, G., Yao, N., Villeneuve, J., and Bindi, L.: Proximosahedrite, IMA 2023-077c, in: CNMNC Newsletter 93, Eur. J. Mineral., 38, <https://doi.org/10.5194/ejm-38-629-2026>, 2026.

IMA no. 2025-083a

Wusiheite

BaGe(Ge₃O₉)

Wsh

Wusihe lead–zinc deposit, Sichuan Province, China (29°16′27″ N, 102°53′23″ E)

Hanjie Wen, Chuanwei Zhu, Yiping Yang, Zhenyi Tan, Jiaxin Xi, Haiyang Xian, Jianxi Zhu*, and Hongping He

* E-mail: zhujx@gig.ac.cn

The Ge–Ge analogue of benitoite

Trigonal: *P*321; structure determined

a = 11.7492(3), *c* = 4.7781(1) Å

5.913(50), 3.639(40), 2.493(21), 2.400(17), 1.995(78), 1.369(54), 1.289(32), 1.139(199)

Type material is deposited in the collections of the National Geological Museum of China, No. 16, Yangrou Hutong, Xisi, Beijing 100031, People's Republic of China, catalogue number GMCTM2026004

How to cite: Wen, H., Zhu, C., Yang, Y., Tan, Z., Xi, J., Xian, H., Zhu, J., and He, H.: Wusiheite, IMA 2025-083a, in: CNMNC Newsletter 93, Eur. J. Mineral., 38, <https://doi.org/10.5194/ejm-38-629-2026>, 2026.

IMA no. 2025-103a

Bromammoniac

NH₄Br

Bram

From an active vent in a burning bituminous shale of the Monterey formation, on a sea cliff talus slope along the Pacific coast, Hope Ranch, Santa Barbara, Santa Barbara Co., California, USA (34°24′35.2″ N, 119°45′59.1″ W)

Anthony R. Kampf*, Paul M. Adams, Chi Ma, and David K. Lynch

* E-mail: akampf@nhm.org

The bromine analogue of salammoniac

Cubic: *Pm*3*m*; structure determined

a = 4.0161(2) Å

4.013(45), 2.838(100), 2.318(15), 2.007(16), 1.796(22), 1.639(30), 1.339(10), 1.270(11)

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 number 77410 and 77411

How to cite: Kampf, A. R., Adams, P. M., Ma, C., and Lynch, D. K.: Bromammoniac, IMA 2025-103a, in: CNMNC Newsletter 93, Eur. J. Mineral., 38, <https://doi.org/10.5194/ejm-38-629-2026>, 2026.

IMA no. 2026-018

Usagreite

[Hg₃²⁺S₂](SO₄)

Ugr

Mariquita mine (20 m level), Badajoz Province, Extremadura Autonomous Community, Spain (38°21′23″ N, 6°11′03″ W)

Christopher Emprot*, Travis A. Olds, Borja Sainz de Baranda Graf, Anthony R. Kampf, Chi Ma, and Michael Cox
* E-mail: emprotoc@carnegiemnh.org

Chemically, the sulfate analogue of alexearlite

Monoclinic: *P*2₁; structure determined

a = 14.2049(5), *b* = 8.2089(3), *c* = 14.2085(5) Å,
β = 120.009(2)°

4.922(36), 4.077(24), 3.892(77), 3.551(28), 3.082(47), 2.880(100), 2.045(27), 1.775(46)

Type material is deposited in the collections of the Carnegie Museum of Natural History, 4400 Forbes Avenue, Pittsburgh, PA 15213, USA, catalogue numbers CM35010 (holotype) and CM35011 (cotype)

How to cite: Emprot, C., Olds, T. A., Sainz de Baranda Graf, B., Kampf, A. R., Ma, C., and Cox, M.: Usagreite, IMA 2026-018, in: CNMNC Newsletter 93, Eur. J. Mineral., 38, <https://doi.org/10.5194/ejm-38-629-2026>, 2026.

IMA no. 2026-019

Aluminomacfallite

Ca₂Mn³⁺AlMn³⁺(SiO₄)(Si₂O₇)(OH)₃

Amcf

Kokuriki mine, Tokoro, Kitami City, Hokkaido, Japan (43°99′62″ N, 143°94′27″ E)

Mariko Nagashima* and Daisuke Nishio-Hamane

* E-mail: nagashim@yamaguchi-u.ac.jp

The Al analogue of macfallite

Monoclinic: *P*2₁/*m*; structure determined

a = 8.9239(4), *b* = 6.0380(2), *c* = 10.1530(5) Å,
β = 110.202(5)°

4.76(37), 3.88(63), 2.95(100), 2.71(53), 2.67(41), 2.55(65), 2.39(41), 1.63(52)

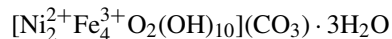
Type material is deposited in the collections of the National Museum of Nature and Science, 4-1-1 Amakubo, Tsukuba, Ibaraki 305-0005, Japan, specimen number NSM-M54121

How to cite: Nagashima, M. and Nishio-Hamane, D.: Aluminomacfallite, IMA 2026-019, in: CNMNC Newsletter

93, Eur. J. Mineral., 38, <https://doi.org/10.5194/ejm-38-629-2026>, 2026.

IMA no. 2026-020

Lincioite



Lco

Lagoscuro mine, Ceranesi (GE), Liguria, Italy (44°28'35" N, 8°51'35" E)

Donato Belmonte*, Cristian Biagioni, Jiří Sejkora, Giovanni Orazio Lepore, Gabriele Giuli, Valeria De Santis, Radek Škoda, and Zdeněk Dolníček

* E-mail: donato.belmonte@unige.it

Hydrotalcite supergroup

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

$a = 3.0769(2)$, $c = 22.449(1)$ Å

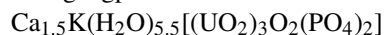
7.55(100), 3.755(33), 2.595(59), 2.293(48), 1.933(44), 1.619(17), 1.540(27), 1.507(23)

Cotype material is deposited in the collections of the Museo di Storia Naturale, University of Pisa, Via Roma 79, Calci (PI), Italy, catalogue number 20085, the Dipartimento di Scienze della Terra, dell'Ambiente e della Vita (DISTAV), Università di Genova, Corso Europa 26, Genova, Italy, catalogue number MO486, and the Department of Mineralogy and Petrology, National Museum, Cirkusová 1740, 19300 Prague 9, Czech Republic, catalogue number P1P 15/2026

How to cite: Belmonte, D., Biagioni, C., Sejkora, J., Lepore, G. O., Giuli, G., De Santis, V., Škoda, R., and Dolníček, Z.: Lincioite, IMA 2026-020, in: CNMNC Newsletter 93, Eur. J. Mineral., 38, <https://doi.org/10.5194/ejm-38-629-2026>, 2026.

IMA no. 2026-023

Wolfgangpauliite



Wpa

Bois Noirs-Limouzat mine, Forez massif, Saint-Priest-la-Prugne, Loire department, Rhône-Alpes-Auvergne region, France (45°57'49" N, 3°43'25" E; 770 m a.s.l.)

Jakub Plášil*, Kshitij Gurung, Radek Škoda, Stefan Ansermet, and Nicolas Meisser

* E-mail: plasil@fzu.cz

Chemically and structurally related to françoisite-(Ce)

Monoclinic: $C2/m$; structure determined

$a = 13.6449(2)$, $b = 15.2469(9)$, $c = 9.3518(3)$ Å, $\beta = 112.573(3)^\circ$

8.652(11), 7.767(100), 5.778(20), 3.877(33), 3.422(14), 3.130(23), 2.886(13), 1.672(2)

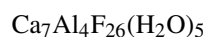
Type material is deposited in the collections of the Department of Geology, Muséum Cantonal des Sciences Naturelles (Naturéum), Université de Lausanne (UNIL), An-

thropole, 1015 Lausanne, Switzerland, collection number MGL111261

How to cite: Plášil, J., Gurung, K., Škoda, R., Ansermet, S., and Meisser, N.: Wolfgangpauliite, IMA 2026-023, in: CNMNC Newsletter 93, Eur. J. Mineral., 38, <https://doi.org/10.5194/ejm-38-629-2026>, 2026.

IMA no. 2026-024

Sainzbarandaite



Sbd

Qinglong Mine, Dachang Sb ore field, Qinglong County, Qianxinan, Guizhou, China (25°40'24" N, 105°10'24" E)

Christian Rewitzer, Rupert Hochleitner, Ian E. Grey*, Anthony R. Kampf, Stephanie Boer, Colin M. MacRae, and William G. Mumme

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

Chemically and structurally related to gearksutite and carl-hintzeite

Monoclinic: $P2_1/c$; structure determined

$a = 12.1062(5)$, $b = 6.2040(2)$, $c = 29.881(1)$ Å, $\beta = 92.139(4)^\circ$

9.277(68), 4.638(22), 3.111(100), 2.262(34), 1.961(50), 1.845(39), 1.807(23), 1.664(28)

Type material is deposited in the collections of the Bavarian State Mineral Collection, Theresienstrasse 41, 80333 München, Germany, registration number MSM39517 (holotype), and the Natural History Museum of Los Angeles County, 900 Exposition Boulevard, Los Angeles, CA 90007, USA, catalogue number 77447 (cotype)

How to cite: Rewitzer, C., Hochleitner, R., Grey, I. E., Kampf, A. R., Boer, S., MacRae, C. M., and Mumme, W. G.: Sainzbarandaite, IMA 2026-024, in: CNMNC Newsletter 93, Eur. J. Mineral., 38, <https://doi.org/10.5194/ejm-38-629-2026>, 2026.

IMA no. 2026-025

Rozhdestvenskayaite-(Fe)



Roz-Fe

Bianjiadayuan deposit, southern segment of the Great Hinggan Range metallogenic belt, China (43°31'24" N, 118°03'45" E)

Xuexiang Gu*, Yongmei Zhang, Xinli Wang, Xiangping Gu, Guang Fan, Anli Zhang, Qihui Shi, and Jiangpeng Liu

* E-mail: xuexiang_gu@163.com

Tetrahedrite group

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

$a = 10.9102(8)$ Å

7.695(18), 3.150(100), 2.724(17), 2.567(6), 2.138(5), 1.994(5), 1.929(21), 1.644(11)

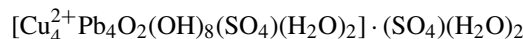
Type material is deposited in the collections of Geological Museum of China, No. 16, Yangrou Hutong, Xisi, Beijing 100031, People's Republic of China, catalogue number GM-CTM2026005

How to cite: Gu, X., Zhang, Y., Wang, X., Gu, X., Fan, G., Zhang, A., Shi, Q., and Liu, J.: Rozhdestvenskayaite-(Fe), IMA 2026-025, in: CNMNC Newsletter 93, Eur. J. Mineral., 38, <https://doi.org/10.5194/ejm-38-629-2026>, 2026.

2 New mineral proposals approved in September 2026

IMA no. 2026-001

Carolinaite



Crln

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

Christopher Emproto*, Travis A. Olds, Anthony R. Kampf, Michael S. Rumsey, Chi Ma, Simon J. Teat, Jason B. Smith, Stephen A. Rust, Paul M. Adams, Jacob Bauer, and John M. Hughes

* E-mail: emprotoc@carnegiemnh.org

New structure type

Monoclinic: $P2_1/c$; structure determined

$a = 13.629(2)$, $b = 7.311(1)$, $c = 11.442(2)$ Å,
 $\beta = 114.656(9)^\circ$

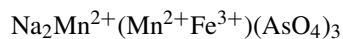
12.471(61), 6.227(62), 5.741(29), 3.676(38), 3.374(31), 3.137(98), 2.797(100), 2.361(28)

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 77407, 77408 and 77409, and the Carnegie Museum of Natural History, 4400 Forbes Avenue, Pittsburgh, PA 15213, USA, catalogue number CM35013

How to cite: Emproto, C., Olds, T. A., Kampf, A. R., Rumsey, M. S., Ma, C., Teat, S. J., Smith, J. B., Rust, S. A., Adams, P. M., Bauer, J., and Hughes, J. M.: Carolinaite, IMA 2026-001, in: CNMNC Newsletter 93, Eur. J. Mineral., 38, <https://doi.org/10.5194/ejm-38-629-2026>, 2026.

IMA no. 2026-026

Vallettaite



Vtt

Valletta mine, Vallone della Valletta, Canosio (CN), Maira Valley, Piedmont, Italy (44°23'54" N, 7°05'37" E; 2560 m a.s.l.)

Fernando Cámara*, Valentina Conforti, Lisa Baratelli, Fabrizio Nestola, Marco E. Ciriotti, Roberto Bracco, Gianluca Odicino, and Gian Carlo Piccoli

* E-mail: fernando.camara@unimi.it

Alluaudite supergroup

Monoclinic: $C2/c$; structure determined

$a = 12.1741(5)$, $b = 13.0328(5)$, $c = 6.7861(3)$ Å,
 $\beta = 113.451(5)^\circ$

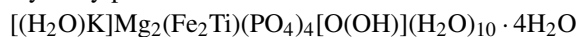
6.448(25), 3.252(66), 2.974(41), 2.805(100), 2.662(84), 1.836(24), 1.680(37), 1.365(25)

Type material is deposited in the collections of the Museo delle Collezioni di Mineralogia, Gemmologia, Petrologia e Giacimentologia, Dipartimento di Scienze della Terra "A. Desio", Università di Milano, Via Botticelli 23, 20133 Milano, Italy, catalogue number MCMGPG-H2026-001

How to cite: Cámara, F., Conforti, V., Baratelli, L., Nestola, F., Ciriotti, M. E., Bracco, R., Odicino, G., and Piccoli, G. C.: Vallettaite, IMA 2026-026, in: CNMNC Newsletter 93, Eur. J. Mineral., 38, <https://doi.org/10.5194/ejm-38-629-2026>, 2026.

IMA no. 2026-028

Hydroxypaulkerrite



Hpke

Hühnerkobel pegmatite mine, near the Rabenstein hamlet, Zwiesel, Bavarian Forest, Germany (49°03'06" N, 13°10'10" E)

Christian Rewitzer, Rupert Hochleitner, Ian E. Grey*, Anthony R. Kampf, Colin M. MacRae, Stephanie Boer, Robert W. Gable, and William G. Mumme

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

Paulkerrite group

Monoclinic: $P2_1/c$; structure determined

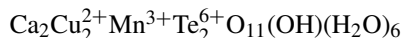
$a = 10.512(3)$, $b = 20.404(5)$, $c = 12.383(2)$ Å, $\beta = 90.09^\circ$
10.202(53), 7.462(18), 7.456(17), 6.192(100), 3.120(32), 3.119(32), 3.096(20), 2.883(26)

Type material is deposited in the collections of the Bavarian State Mineral Collection, Theresienstrasse 41, 80333 München, Germany, registration number MSM39518 (holotype), and the Natural History Museum of Los Angeles County, 900 Exposition Boulevard, Los Angeles, CA 90007, USA, catalogue number 77448 (cotype)

How to cite: Rewitzer, C., Hochleitner, R., Grey, I. E., Kampf, A. R., MacRae, C. M., Boer, S., Gable, R. W., and Mumme, W. G.: Hydroxypaulkerrite, IMA 2026-028, in: CNMNC Newsletter 93, Eur. J. Mineral., 38, <https://doi.org/10.5194/ejm-38-629-2026>, 2026.

IMA no. 2026-029

Gambatesaite



Gb

Gambatesa mine, Reppia, Ne (GE), Liguria, Italy (44°21'34" N, 9°26'59" E)

Anthony R. Kampf*, Christopher Emproto, Travis A. Olds, Chi Ma, Stuart J. Mills, Owen P. Missen, Simon J. Teat, and Fabrizio Castellarò

* E-mail: akampf@nhm.org

New structure type

Trigonal: $P312$; structure determined

$a = 5.2530(3)$, $c = 15.073(1)$ Å

7.582(100), 4.353(23), 3.791(27), 3.385(33), 2.631(22), 2.490(50), 2.163(25), 1.822(41)

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 77450, 77451, and 77452

How to cite: Kampf, A. R., Emproto, C., Olds, T. A., Ma, C., Mills, S. J., Missen, O. P., Teat, S. J., and Castellarò, F.: Gambatesaite, IMA 2026-029, in: CNMNC Newsletter 93, Eur. J. Mineral., 38, <https://doi.org/10.5194/ejm-38-629-2026>, 2026.

3 Other issues

3.1 Re-writing of the chemical formula of santanaite

In the IMA List of Minerals, the chemical formula of santanaite is given as $\text{Pb}_{11}\text{CrO}_{16}$. The above formula is oversimplified and does not reflect the presence of lead in both the Pb^{2+} and Pb^{4+} oxidation states, as detailed in the original publication [*Neues Jahrbuch für Mineralogie Monatshefte*, 1972, 455–458]. A more correct formula is $\text{Pb}_9^{2+}\text{Pb}_2^{4+}(\text{CrO}_4)\text{O}_{12}$. Thanks are given to Frank de Wit for pointing this out.

3.2 Correct space group for shojiite

The correct space group of the new mineral shojiite (IMA no. 2024-023a) is $P2_1/m$ and not $C2/m$, as wrongly reported in CNMNC Newsletter 87.