



IMA Commission on New Minerals, Nomenclature and Classification (CNMNC) – Newsletter 92

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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 2026

IMA no. 2025-018a

Jordanówite
 $\text{Zr}(\text{Ti}^{3+}\text{Zr})\text{Ti}_4^{3+}\text{AlO}_{16}$
Jrn

In a quarry situated ca. 1 km west of the Jordanów Ślągski village, ca. 30 km south of Wrocław, Lower Silesia, Poland (50°52'16" N, 16°50'18" E)

Marcin Stachowicz and Adam Pieczka*

* E-mail: pieczka@agh.edu.pl

Closely related to jianmuite

Tetragonal: $I4_1/a$; structure determined
 $a = 10.7053(3)$, $c = 9.6262(7)$ Å

7.158(11), 4.287(7), 2.769(100), 2.394(9), 1.697(30), 1.693(15), 1.450(8), 1.444(8)

Type material is deposited in the collections of the Mineralogical Museum, University of Wrocław, Cybulskiego 30, 50-205 Wrocław, Poland, catalogue number MMUWr IV8120

How to cite: Stachowicz, M. and Pieczka, A.: Jordanówite, IMA 2025-018a, in: CNMNC Newsletter 92, Eur. J. Mineral., 38, <https://doi.org/10.5194/ejm-38-491-2026>, 2026.

IMA no. 2026-003

Dmitrievite

$\text{Sb}_4\text{Cl}_2\text{O}_5$

Dmi

In the oxidation zone of the Solnechnoye antimony ore deposit, left bank of the Aksuo River, 26 km east-southeast of Murghab, Eastern Pamir, Gorno-Badakhshan Autonomous Region, Tajikistan (38°06'35" N, 74°15'15" E; 4428 m a.s.l.)

Mirak A. Mirakov, Leonid A. Pautov, Oleg I. Siidra*, and Vladimir Y. Karpenko

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

Known synthetic analogue

Monoclinic: $P2_1/c$; structure determined

$a = 6.1993(2)$, $b = 5.1169(2)$, $c = 13.5207(4)$ Å,
 $\beta = 97.395(4)^\circ$

6.19(100), 3.70(7), 3.34(11), 3.283(20), 3.117(12), 3.094(33), 2.558(10), 2.063(23)

Type material is deposited in the collections of the Fersman Mineralogical Museum, Russian Academy of Sciences, Leninsky Pr. 18-2, 119071 Moscow, Russia, registration number 6340/1

How to cite: Mirakov, M. A., Pautov, L. A., Siidra, O. I., and Karpenko, V. Y.: Dmitrievite, IMA 2026-003, in: CNMNC Newsletter 92, Eur. J. Mineral., 38, <https://doi.org/10.5194/ejm-38-491-2026>, 2026.

IMA no. 2026-004

Luoxianchangite

$\text{Ag}_8\text{SnS}_4\text{Se}_2$

Lxc

Shuangjianzishan deposit, southern segment of the Great Hinggan Range metallogenic belt, China (44°30'04" N, 119°08'48" E)

Yongmei Zhang, Xuexiang Gu*, Xiangping Gu, Xinli Wang, Guang Fan, Jiangpeng Liu, and Huan Xu

* E-mail: xuexiang_gu@163.com

The partially Se-substituted analogue of canfieldite

Orthorhombic: $Pmn2_1$; structure determined

$a = 7.740(1)$, $b = 7.68(2)$, $c = 10.79(2)$ Å

6.032(29), 3.440(34), 3.277(36), 3.137(100), 2.545(31), 2.216(26), 2.091(46), 1.916(33)

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 GM-CTM2026001

How to cite: Zhang, Y., Gu, X., Gu, X., Wang, X., Fan, G., Liu, J., and Xu, H.: Luoxianchangite, IMA 2026-004, in: CNMNC Newsletter 92, Eur. J. Mineral., 38, <https://doi.org/10.5194/ejm-38-491-2026>, 2026.

IMA no. 2026-006

Zhaoyuanite

$\text{MnZnTe}_4^{4+}\text{O}_{10}$

Zyu

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

Hexiong Yang*, Xiangping Gu, Ningyue Sun, Robert A. Jenkins, Ronald B. Gibbs, and Robert T. Downs

* E-mail: hyang@arizona.edu

Structurally and chemically related to denningite

Tetragonal: $P4_2/nbc$; structure determined

$a = 8.7199(4)$, $c = 12.9067(5)$ Å

6.193(32), 4.360(45), 3.343(100), 3.086(52), 2.591(74), 2.011(62), 1.885(34), 1.510(39)

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 number 22752 (holotype), and the RRUFF Project, deposition number R240008 (cotype)

How to cite: Yang, H., Gu, X., Sun, N., Jenkins, R. A., Gibbs, R. B., and Downs, R. T.: Zhaoyuanite, IMA 2026-006, in: CNMNC Newsletter 92, Eur. J. Mineral., 38, <https://doi.org/10.5194/ejm-38-491-2026>, 2026.

IMA no. 2026-007

Magnesio-fluoro-riebeckite

$\square\text{Na}_2(\text{Mg}_3\text{Fe}_2^{3+})\text{Si}_8\text{O}_{22}\text{F}_2$

Mfrbk

In the western part of the Bayan Obo deposit, about 90 km north of the city of Baotou, Guyang County, Inner Mongolia, China (41°48' N, 109°53' E)

Jingyi Wang, Tianyu Yang, Yuqi Zhou, Yuqing Wei, Yuwei Chen, Yifan Wang, Wenchen Zhang, Yiming Zhao, Jingyi Wu, Guanghua Liu, and Xiangping Gu*

* E-mail: guxp2004@163.com

Amphibole supergroup

Monoclinic: $C2/m$; structure determined

$a = 9.8075(4)$, $b = 17.9925(7)$, $c = 5.3010(2)$ Å,
 $\beta = 103.847(4)^\circ$

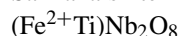
8.426(86), 4.498(39), 3.407(67), 3.121(57), 2.710(100), 2.585(36), 2.527(55), 2.321(33)

Type material is deposited in the collections of the Geological Museum of China, no. 15, Yangrou Hutong, Xisi, Beijing 100034, People's Republic of China, catalogue number GM-CTM2025003

How to cite: Wang, J., Yang, T., Zhou, Y., Wei, Y., Chen, Y., Wang, Y., Zhang, W., Zhao, Y., Wu, J., Liu, G., and Gu, X.: Magnesio-fluoro-riebeckite, IMA 2026-007, in: CNMNC Newsletter 92, Eur. J. Mineral., 38, <https://doi.org/10.5194/ejm-38-491-2026>, 2026.

IMA no. 2026-008

Sakhanaiskite



Sakh

Sakhanaiskiy granite massif, 12 km northeast of the township of Duldurga, Duldurginskiy region, Eastern Siberia, Russia (50°23'–50°31' N, 113°35'–113°48' E)

Nikita V. Chukanov*, Anatoly V. Kasatkin, Natalia V. Zubkova, Igor V. Pekov, Vasiliy O. Yapaskurt, Marina F. Vigasina, Alla A. Virus, Vera N. Ermolaeva, Dmitriy A. Ksenofontov, and Sergey N. Britvin

* E-mail: nikchukanov@yandex.ru

Columbite supergroup

Monoclinic: $P2_1/c$; structure determined

$a = 4.7469(4)$, $b = 5.7275(5)$, $c = 5.0710(5)$ Å,
 $\beta = 90.077(8)^\circ$

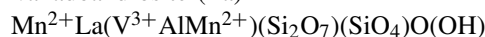
3.65(36), 2.966(100), 2.540(12), 2.495(21), 2.372(10), 1.771(14), 1.734(19), 1.719(28)

Type material is deposited in the collections of the Fersman Mineralogical Museum, Russian Academy of Sciences, Leninsky Pr. 18-2, 119071 Moscow, Russia, registration number 83763

How to cite: Chukanov, N. V., Kasatkin, A. V., Zubkova, N. V., Pekov, I. V., Yapaskurt, V. O., Vigasina, M. F., Virus, A. A., Ermolaeva, V. N., Ksenofontov, D. A., and Britvin, S. N.: Sakhanaiskite, IMA 2026-008, in: CNMNC Newsletter 92, Eur. J. Mineral., 38, <https://doi.org/10.5194/ejm-38-491-2026>, 2026.

IMA no. 2026-009

Vanadoandrosite-(La)



Vda-La

Mogurazawa mine, Hishimachi, Kiryu, Gunma Prefecture, Japan (36°26'23" N, 139°22'59" E)

Mariko Nagashima*, Daisuke Nishio-Hamane, Masayuki Ohnishi, Hiroshi Miyajima, Osatoshi Murata, and Akira Harada

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

Epidote supergroup

Monoclinic: $P2_1/m$; structure determined

$a = 8.8615(4)$, $b = 5.7236(2)$, $c = 10.0759(4)$ Å,
 $\beta = 113.165(5)^\circ$
7.92(9), 4.68(10), 3.52(8), 2.90(100), 2.71(37), 2.61(52), 2.17(21), 2.11(16)

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-M53892

How to cite: Nagashima, M., Nishio-Hamane, D., Ohnishi, M., Miyajima, H., Murata, O., and Harada, A.: Vanadoandrosite-(La), IMA 2026-009, in: CNMNC Newsletter 92, Eur. J. Mineral., 38, <https://doi.org/10.5194/ejm-38-491-2026>, 2026.

IMA no. 2026-010

Agujaite



Agj

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

Anthony R. Kampf*, Christopher Emproto, Chi Ma, Simon J. Teat, Gerhard Möhn, Maurizio Dini, Arturo A. Molina Donoso, and Joy Désor

* E-mail: akampf@nhm.org

New structure type

Trigonal: $R3c1$; structure determined

$a = 16.2184(8)$, $c = 10.1357(7)$ Å
14.123(100), 7.091(14), 4.737(39), 3.463(25), 3.106(37), 2.734(15), 1.880(10), 1.803(10)

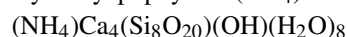
Type material is deposited in the collections of the Natural History Museum of Los Angeles County, 900 Exposition Boulevard, Los Angeles, CA 90007, USA, catalogue numbers 77414 (holotype), 77415, 77416, and 77417 (cotypes)

How to cite: Kampf, A. R., Emproto, C., Ma, C., Teat, S. J., Möhn, G., Dini, M., Molina Donoso, A. A., and Désor, J.: Agujaite, IMA 2026-010, in: CNMNC Newsletter 92, Eur. J. Mineral., 38, <https://doi.org/10.5194/ejm-38-491-2026>, 2026.

2 New mineral proposals approved in July 2026

IMA no. 2025-064a

Hydroxyapophyllite-(NH₄)



Hapo-NH₄

As inclusion in the Kaidun meteorite, fell on December 3, 1980 near Kaidun (Khuraybah), South Yemen, Yemen (15°00' N, 48°18' E)

Sergey N. Britvin*, Marina A. Ivanova, Maria G. Krzhizhanovskaya, Nina G. Zinovieva, Natalia S. Vlasenko, Alexander M. Kulkov, Elena A. Sukharzhevskaya, Oleg S. Vereshchagin, Anatoly V. Kasatkin, and Igor V. Pekov

* E-mail: sbritvin@gmail.com

Apophyllite group

Tetragonal: $P4/mcn$; structure determined

$a = 9.0058(1)$, $c = 15.7639(4)$ Å

7.82(100), 4.52(38), 3.905(28), 3.588(39), 2.976(23), 2.956(34), 2.505(40), 2.483(24)

Type material is deposited in the collections of the Vernadsky Institute of Geochemistry and Analytical Chemistry, Russian Academy of Sciences, Kosygin St. 19, Moscow 119991, Russia, catalogue number 15415-A3-1

How to cite: Britvin, S. N., Ivanova, M. A., Krzhizhanovskaya, M. G., Zinovieva, N. G., Vlasenko, N. S., Kulkov, A. M., Sukharzhevskaya, E. A., Vereshchagin, O. S., Kasatkin, A. V., and Pekov, I. V.: Hydroxyapophyllite- (NH_4) , IMA 2025-064a, in: CNMNC Newsletter 92, Eur. J. Mineral., 38, <https://doi.org/10.5194/ejm-38-491-2026>, 2026.

IMA no. 2025-079a

Petfordite

$\text{ZrW}_2^{6+}\text{O}_7(\text{OH})_2(\text{H}_2\text{O})_2$

Ptf

From the dumps of the Bamford Hill Mine, 3 km north of Petford, Mareeba Shire, Queensland, Australia ($17^\circ 18' 35''$ S, $144^\circ 55' 27''$ E)

Peter Elliott* and Anthony R. Kampf

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

The tungsten analogue of kingsgateite

Tetragonal: $I4_1cd$; structure determined

$a = 11.4169(3)$, $c = 12.4942(9)$ Å

5.72(75), 4.23(90), 3.618(88), 3.135(100), 2.600(36), 2.486(42), 1.906(37), 1.734(37)

Cotype material is deposited in the collections of the South Australian Museum, North Terrace, Adelaide, SA 5000, Australia, registration numbers G35468 and G35469

How to cite: Elliott, P. and Kampf, A. R.: Petfordite, IMA 2025-079a, in: CNMNC Newsletter 92, Eur. J. Mineral., 38, <https://doi.org/10.5194/ejm-38-491-2026>, 2026.

IMA no. 2026-013

Zincocaberite

$\text{ZnMg}_2(\text{AsO}_4)_2(\text{H}_2\text{O})_8$

Zcabr

Bou Azzer East mine, Bou Azzer mining district, Drâa-Tafilalet Region, Morocco ($30^\circ 31' 00''$ N, $6^\circ 53' 32''$ W)

Anthony R. Kampf*, Georges Favreau, Christopher Emproto, Travis A. Olds, Chi Ma, and Paul M. Adams

* E-mail: akampf@nhm.org

The zinc analogue of cabrerite

Monoclinic: $C2/m$; structure determined

$a = 10.306(2)$, $b = 13.490(2)$, $c = 4.7782(8)$ Å, $\beta = 105.270(7)^\circ$

7.925(24), 6.684(100), 4.402(26), 3.223(47), 3.005(41), 2.721(35), 2.330(26), 2.089(17)

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 77434 (holotype), and the Carnegie Museum of Natural History, 4400 Forbes Avenue, Pittsburgh, PA 15213, USA, catalogue number CM35008 (cotype)

How to cite: Kampf, A. R., Favreau, G., Emproto, C., Olds, T. A., Ma, C., and Adams, P. M.: Zincocaberite, IMA 2026-013, in: CNMNC Newsletter 92, Eur. J. Mineral., 38, <https://doi.org/10.5194/ejm-38-491-2026>, 2026.

IMA no. 2026-014

Hugotibergite

$\text{Ca}_6\text{CaPb}_2(\text{Si}_3\text{O}_9)_2(\text{SO}_4)_2(\text{OH})_2(\text{H}_2\text{O})_4$

Htb

Långban mine, Filipstad municipality, Värmland County, Sweden ($59^\circ 51' 19''$ N, $14^\circ 15' 53''$ E)

Hexiong Yang*, Anthony R. Kampf, Paul M. Adams, Markus Wiklund, Stefan Wiklund, and Robert T. Downs

* E-mail: hyang@arizona.edu

The calcium-dominant analogue of roebblingite

Monoclinic: $C2/m$; structure determined

$a = 13.2555(4)$, $b = 8.3290(3)$, $c = 13.1345(4)$ Å, $\beta = 105.312(1)^\circ$

6.993(35), 6.482(99), 3.964(46), 3.229(100), 2.961(82), 2.901(66), 2.544(39), 2.207(50)

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 number 22574 (holotype), and the RRUFF Project, deposition number R260002 (cotype)

How to cite: Yang, H., Kampf, A. R., Adams, P. M., Wiklund, M., Wiklund, S., and Downs, R. T.: Hugotibergite, IMA 2026-014, in: CNMNC Newsletter 92, Eur. J. Mineral., 38, <https://doi.org/10.5194/ejm-38-491-2026>, 2026.

IMA no. 2026-017

Flatimerite

$[\text{Al}_{13}(\text{OH})_{24}(\text{H}_2\text{O})_{24}][\text{V}_9^{5+}\text{V}^{4+}\text{O}_{28}] \cdot [(\text{SO}_4)_4(\text{H}_2\text{O})_{24}]$

Flm

Burro mine, Slick Rock district, San Miguel Co., Colorado, USA ($38^\circ 02' 42''$ N, $108^\circ 53' 23''$ W)

Anthony R. Kampf*, Christopher Emproto, Travis A. Olds, Chi Ma, William H. Casey, Simon J. Teat, Joe Marty, and Alan J. Wilkins

* E-mail: akampf@nhm.org

Pascoite family

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

$a = 14.1246(9)$, $b = 14.167(1)$, $c = 15.559(1)$ Å,
 $\alpha = 94.456(2)$, $\beta = 115.399(2)$, $\gamma = 111.636(2)^\circ$
 13.49(88), 12.17(100), 11.42(31), 10.87(12), 7.708(12),
 6.978(21), 6.543(7), 4.140(10)

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 77436, 77437, 77438, and 77439

How to cite: Kampf, A. R., Emproto, C., Olds, T. A., Ma, C., Casey, W. H., Teat, S. J., Marty, J., and Wilkins, A. J.: Flatimerite, IMA 2026-017, in: CNMNC Newsletter 92, Eur. J. Mineral., 38, <https://doi.org/10.5194/ejm-38-491-2026>, 2026.

3 Nomenclature/classification proposals approved in June 2026

3.1 Renaming of schultenite to schulténite

The mineral name “schultenite” is executively changed to “schulténite”, in agreement with the original spelling of the name of the person to whom it is dedicated. Indeed, the mineral was named to honor the Finnish chemist August Benjamin af Schultén (1856–1912). Since the mineral dates back to 1926, this was evidently a simple oversight in the massive renaming of minerals that occurred some years ago (Burke, E. A. J.: Tidying up mineral names: an IMA-CNMNC scheme for suffixes, hyphens and diacritical marks, *Mineralogical Record*, 39, 131–135, 2008).

3.2 Modraite: ideal formula

During peer review of the paper presenting the description of the new mineral modraite, IMA no. 2023-108a, first announced in CNMNC Newsletter 79, the ideal formula was corrected from $\text{Ca}_{19}\text{Fe}^{2+}\text{Al}_4(\text{Al}_6\text{Fe}_2^{2+})(\square_4)\square(\text{SiO}_4)_{10}(\text{Si}_2\text{O}_7)_4(\text{OH})_{10}$ to $\text{Ca}_{19}\text{Fe}^{2+}(\text{Al}_{11}\text{Fe}^{2+})(\text{SiO}_4)_{10}(\text{Si}_2\text{O}_7)_4\text{O}(\text{OH})_9$ (<https://doi.org/10.2138/am-2025-10007>). Accordingly, the IMA formula of modraite is modified by executive decision. This revision is consistent with similar changes recently made to the chemical formulae of closely related minerals (alumovesuvianite, cyprine, and fluorovesuvianite) as reported in CNMNC Newsletter 91.