



## CNMNC Newsletter

# IMA Commission on New Minerals, Nomenclature and Classification (CNMNC) – Newsletter 87

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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

## NEW MINERAL PROPOSALS APPROVED IN AUGUST 2025

IMA No. 2023-081c

Wangxibinite

TiFe

Wxb

Chromite deposit #31 (sample #M 11843), Luobusa ophiolite, Yarlung Zangbu suture, southern Tibet, China (29°13'52" N, 92°11'25" E)

Faui Xiong, Enrico Mugnaioli, Xiangzhen Xu, Jingsui Yang, Richard Wirth, Edward S. Grew\* and Martin G. Yates

\*E-mail: [esgrew@maine.edu](mailto:esgrew@maine.edu)

Known synthetic analogue; CsCl-type structure

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

$a = 3.162(2)$  Å

2.236(100), 1.581(15), 1.291(28), 1.118(8), 1.000(13), 0.913(4)

Type material is deposited in the collections of the Geological Museum of China, 15 Yangrou Hutong, Xisi, West District, Beijing 100034, People's Republic of China, catalogue number M11843

How to cite: Xiong, F., Mugnaioli, E., Xu, X., Yang, J., Wirth, R., Grew, E.S. and Yates, M.G. (2025) Wangxibinite, IMA 2023-081b. CNMNC Newsletter 87, *Mineralogical Magazine*, 89, <https://doi.org/10.1180/mgm.2025.10163>

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## IMA No. 2025-028

Bonaccorsiite

KK<sub>2</sub>Na<sub>3</sub>(Al<sub>6</sub>Si<sub>36</sub>)O<sub>84</sub>

Bcs

As inclusion within garnets, Pfaffenberg, Waldheim, Saxony, Germany (51°04'06.91" N, 13°00'54.72" E)

Enrico Mugnaioli\*, Sofia Lorenzon, Silvio Ferrero, Roberto Borriello, Alessia Borghini, Cristian Biagioni, Rico Fuchs, Richard Wirth, Anja Schreiber and Edward S. Grew

\*E-mail: [enrico.mugnaioli@unipi.it](mailto:enrico.mugnaioli@unipi.it)

New structure type

Hexagonal: *P6/mmc*; structure determined
 $a = 17.023(5), c = 15.580(7) \text{ \AA}$ 
 $14.742(100), 4.256(93), 4.156(60), 3.895(39), 3.735(26), 3.192(26), 3.151(42), 2.783(27)$ 

Type material is deposited in the collections of the Museo di Storia Naturale, University of Pisa, Via Roma 79, Calci (PI), Italy, catalogue number 20082

How to cite: Mugnaioli, E., Lorenzon, S., Ferrero, S., Borriello, R., Borghini, A., Biagioni, C., Fuchs, R., Wirth, R., Schreiber, A. and Grew, E.S. (2025) Bonaccorsiite, IMA 2025-028. CNMNC Newsletter 87, *Mineralogical Magazine*, **89**, <https://doi.org/10.1180/mgm.2025.10163>

## IMA No. 2025-034

Hopmannite

Ba<sub>2</sub>(Ti<sub>5</sub>Fe)O<sub>13</sub>

Hpn

In a xenolith, Bellerberg volcano, Seekante district, Eastern Eifel region, Germany (50°20'21" N, 7°14'37" E)

Rafal Juroszek\*, Biljana Krüger, Georgia Cametti, Beata Marciniak-Maliszewska and Christof Schäfer

\*E-mail: [rafal.juroszek@us.edu.pl](mailto:rafal.juroszek@us.edu.pl)

Isostructural with nixonite and jeppeite

Monoclinic: *C2/m*; structure determined
 $a = 15.357(2), b = 3.8500(7), c = 9.129(2) \text{ \AA}, \beta = 99.03(1)^\circ$ 
 $3.063(100), 2.988(99), 2.957(60), 2.821(54), 2.820(50), 2.087(62), 2.070(53), 1.925(72)$ 

Type material is deposited in the collections of the Natural History Museum Mainz, State Collection of Natural History of Rhineland-Palatinate, Reichklarstr. 10, D-55116 Mainz, Germany, catalogue number M\_2025/862

How to cite: Juroszek, R., Krüger, B., Cametti, G., Marciniak-Maliszewska, B. and Schäfer, C. (2025) Hopmannite, IMA 2025-034. CNMNC Newsletter 87, *Mineralogical Magazine*, **89**, <https://doi.org/10.1180/mgm.2025.10163>

## IMA No. 2025-036

Abelloemringerite

Cu<sub>2</sub>Pb<sub>2</sub>Mn<sup>3+</sup>Mn<sup>4+</sup><sub>3</sub>O<sub>11</sub>(OH)(H<sub>2</sub>O)<sub>2</sub>·H<sub>2</sub>O

Abem

Renéville area, approximately 80 km northwest of the city of Brazzaville, Kindanba district, Pool department, Republic of the Congo (3°59'31" S, 14°49'50" E)

Jordi Ibáñez-Insa\*, Joan Rosell-Riba, Cristian Biagioni, Fabrizio Nestola, Daniel del Pozo-Bueno, Sergi Plana-Ruiz, Xavier Llovet, Catalin Popescu, Sònia Estradé, Francesca Peiró and Marc Campeny

\*E-mail: [jibanez@geo3bcn.csic.es](mailto:jibanez@geo3bcn.csic.es)

New structure type

Orthorhombic: *Imma*; structure determined
 $a = 27.7635(7), b = 5.5552(1), c = 8.4078(2) \text{ \AA}$ 
 $13.87(100), 6.935(49), 4.636(43), 3.857(35), 3.592(41), 2.870(37), 2.778(69), 2.680(47)$ 

Type material is deposited in the collections of the Natural Science Museum of Barcelona (MCNB), Passeig Picasso s/n, 08003 Barcelona, Spain, catalogue number MGB-40200

How to cite: Ibáñez-Insa, J., Rosell-Riba, J., Biagioni, C., Nestola, F., del Pozo-Bueno, D., Plana-Ruiz, S., Llovet, X., Popescu, C., Estradé, S., Peiró, F. and Campeny, M. (2025) Abelloemringerite, IMA 2025-036. CNMNC Newsletter 87, *Mineralogical Magazine*, **89**, <https://doi.org/10.1180/mgm.2025.10163>

## NEW MINERAL PROPOSALS APPROVED IN SEPTEMBER 2025

## IMA No. 2024-023a

Shojiite

Na(NaMg)Mg<sub>5</sub>Si<sub>8</sub>O<sub>22</sub>(OH)<sub>2</sub>

Shj

Mamushinosawa Creek, a tributary of the Inuushibetsu River, Horokanai ophiolite, Hokkaido, Japan (44°05'12.45" N, 142°12'22.32" E)

Maki Hamada\*, Terumi Ejima, Noriko Hasebe, Tomoyuki Mizukami, Akihiro Ishii, Kiwamu Okamoto, Mariko Nagashima, Akihiro Tamura and Tomoaki Morishita

\*E-mail: [hamada-m@se.kanazawa-u.ac.jp](mailto:hamada-m@se.kanazawa-u.ac.jp)

Amphibole supergroup

Monoclinic: *C2/m*; structure determined
 $a = 9.7912(5), b = 17.9438(9), c = 5.2721(3) \text{ \AA}, \beta = 103.548(5)^\circ$   
 $8.42(39), 3.268(39), 3.129(100), 2.711(48), 2.809(28), 2.168(24), 1.896(20), 1.657(30)$ 

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-M52045 (holotype), and the Shibetsu City Museum, 2554 Nishishibetsu-cho, Shibetsu, Hokkaido 095-0056, Japan, specimen number 13225 (cotype)

How to cite: Hamada, M., Ejima, T., Hasebe, N., Mizukami, T., Ishii, A., Okamoto, K., Nagashima, M., Tamura, A. and Morishita, T. (2025) Shojiite, IMA 2024-023a. CNMNC Newsletter 87, *Mineralogical Magazine*, **89**, <https://doi.org/10.1180/mgm.2025.10163>

## IMA No. 2024-093a

Hinokageite

MnMg(SiO<sub>4</sub>)

Hkg

Shimozuru mine, Hinokage Town, Miyazaki Prefecture, Kyushu, Japan (32°44'16" N, 131°24'44" E)

Daisuke Nishio-Hamane\*, Mariko Nagashima, Yuki Mori, Masayuki Ohnishi, Takahiro Tanaka, Hiroyuki Imai and Tatsumi Fukumoto

\*E-mail: [hamane@issp.u-tokyo.ac.jp](mailto:hamane@issp.u-tokyo.ac.jp)

Olivine group

Orthorhombic: *Pbnm*; structure determined
 $a = 4.8219(2), b = 10.5480(5), c = 6.1655(2) \text{ \AA}$   
 $3.573(87), 3.082(29), 2.840(86), 2.579(100), 2.522(82), 1.787(64), 1.783(28), 1.539(25)$ 

Type material is deposited in the collections of the National Museum of Nature and Science, 4-1-1 Amakubo, Tsukuba, Japan specimen number NSM-M53011

How to cite: Nishio-Hamane, D., Nagashima, M., Mori, Y., Ohnishi, M., Tanaka, T., Imai, H. and Fukumoto, T. (2025) Hinokageite, IMA 2024-093a. CNMNC Newsletter 87, *Mineralogical Magazine*, **89**, <https://doi.org/10.1180/mgm.2025.10163>

#### IMA No. 2025-037

Clinochalcomenite

$\text{CuSeO}_3(\text{H}_2\text{O})_2$

Cccm

Wangba town, Kang County, Gansu Province, China (33°20'47.6" N, 105°41'47.6" E – holotype); Suncup No. 2 mine, Slick Rock district, San Miguel Co., Colorado, USA (37°56'45" N, 108°47'3" W – cotype 1); Burro mine, Slick Rock district, San Miguel Co., Colorado, USA (38°02'42" N, 108°53'23" W – cotype 2)

Guang Fan\*, Ting Li, Xiangkun Ge, Mike S. Rumsey\*\*, Stuart J. Mills, John Spratt, Liumin Deng, Tao Wang, Zongyao Tai, Jens Najorka, Anthony R. Kampf, Travis A. Olds, Chi Ma, Timothy P. Rose and Joe Marty

\*E-mail: [fanguang2008@163.com](mailto:fanguang2008@163.com)

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A dimorph of chalcomenite

Monoclinic:  $P2_1/n$ ; structure determined

$a = 6.2736(3)$ ,  $b = 8.5930(4)$ ,  $c = 8.1633(4)$  Å,  $\beta = 97.267(2)^\circ$   
5.918(100), 4.105(28), 3.814(22), 3.676(48), 2.926(27), 2.584(75), 2.376(22), 1.564(32)

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 GMCTM2025006 (holotype), the Natural History Museum, Cromwell Road, London SW7 5BD, United Kingdom, catalogue number BM 2016,60 (cotype 1), and the Natural History Museum of Los Angeles County, 900 Exposition Boulevard, Los Angeles, CA 90007, USA, catalogue number 76454 (cotype 2)

How to cite: Fan, G., Li, T., Ge, X., Rumsey, M.S., Mills, S.J., Spratt, J., Deng, L., Wang, T., Tai, Z., Najorka, J., Kampf, A.R., Olds, T.A., Ma, C., Rose, T.P. and Marty, J. (2025) Clinochalcomenite, IMA 2025-037. CNMNC Newsletter 87, *Mineralogical Magazine*, **89**, <https://doi.org/10.1180/mgm.2025.10163>

#### IMA No. 2025-040

Yunhaoite

$\text{K}_2(\text{MoO}_4)$

Yun

Freedom #2 mine, Marysvale mining district, Piute Co., Utah, USA (38°29'43" N, 112°12'55" W)

Heiong Yang\*, Xiangping Gu, Anthony R. Kampf, Ronald B. Gibbs and Robert T. Downs

\*E-mail: [hyang@arizona.edu](mailto:hyang@arizona.edu)

Known synthetic analogue

Monoclinic:  $C2/m$ ; structure determined

$a = 12.3452(10)$ ,  $b = 6.0892(5)$ ,  $c = 7.5380(6)$  Å,  $\beta = 115.751(4)^\circ$   
5.672(29), 4.706(59), 3.405(61), 3.176(100), 3.050(75), 2.932(46), 2.272(84), 1.982(42)

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. 22745

(holotype), and the RRUFF Project, deposition no. R250015 (cotype)

How to cite: Yang, H., Gu, X., Kampf, A.R., Gibbs, R.B. and Downs, R.T. (2025) Yunhaoite, IMA 2025-040. CNMNC Newsletter 87, *Mineralogical Magazine*, **89**, <https://doi.org/10.1180/mgm.2025.10163>

#### IMA No. 2025-041

Hubbardite

$\text{Mg}(\text{H}_2\text{O})_6[(\text{UO}_2)_2\text{O}(\text{OH})(\text{SO}_4)]_2 \cdot 8\text{H}_2\text{O}$

Hbb

Hubbard Homestead mine, near Gateway, Mesa Co., Colorado, USA (38°38'00" N, 109°01'01" W)

Anthony R. Kampf\*, Jakub Plášil, Travis A. Olds, Christopher Emproto, Chi Ma, Jiří Sejkora, Paul M. Adams and Joe Marty

\*E-mail: [akampf@nhm.org](mailto:akampf@nhm.org)

Chemically and structurally related to marécottite

Orthorhombic:  $Fddd$ ; structure determined

$a = 8.870(2)$ ,  $b = 34.183(7)$ ,  $c = 39.377(9)$  Å  
9.659(100), 4.851(21), 4.215(15), 3.448(48), 3.078(24), 2.735(11), 2.152(12), 1.744(14)

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 76119 (holotype), 76120 and 76121 (cotype)

How to cite: Kampf, A.R., Plášil, J., Olds, T.A., Emproto, C., Ma, C., Sejkora, J., Adams, P.M. and Marty, J. (2025) Hubbardite, IMA 2025-041. CNMNC Newsletter 87, *Mineralogical Magazine*, **89**, <https://doi.org/10.1180/mgm.2025.10163>

#### IMA No. 2025-047

Liddicoatite

$\text{Ca}(\text{Li}_2\text{Al})\text{Al}_6(\text{Si}_6\text{O}_{18})(\text{BO}_3)_3(\text{OH})_3(\text{OH})$

Ld

Dolní Rožinka pegmatite, Žďár nad Sázavou District, Vysočina Region, Czech Republic (49°28'34" N, 16°12'07" E)

Lenka Skřápková\*, Jan Cempírek, Radek Škoda, Markéta Holá, František Novotný and Ferdinando Bosi

\*E-mail: [lenkas@sci.muni.cz](mailto:lenkas@sci.muni.cz)

Tourmaline supergroup

Trigonal:  $R3m$ ; structure determined

$a = 15.8277(3)$ ,  $c = 7.0985(1)$  Å  
4.931(33), 4.185(61), 3.957(81), 3.436(43), 2.928(89), 2.557(100), 2.023(43), 1.902(43)

Type material is deposited in the collections of the Department of Mineralogy and Petrography, Moravian Museum, Zelný trh 6, 659 37 Brno, Czech Republic, specimen numbers A11696 and A11697

How to cite: Skřápková, L., Cempírek, J., Škoda, R., Holá, M., Novotný, F. and Bosi, F. (2025) Liddicoatite, IMA 2025-047. CNMNC Newsletter 87, *Mineralogical Magazine*, **89**, <https://doi.org/10.1180/mgm.2025.10163>

### NOMENCLATURE/CLASSIFICATION PROPOSALS APPROVED IN SEPTEMBER 2025

#### *Jeppeite group*

(Rafał Juroszek, Biljana Krüger and Christof Schäfer)

The jeppeite group has been established. It includes the minerals jeppeite,  $\text{K}_2\text{Ti}_6\text{O}_{13}$ , nixonite,  $\text{Na}_2\text{Ti}_6\text{O}_{13}$ , and the newly approved mineral hopmannite,  $\text{Ba}_2(\text{Ti}_5\text{Fe})\text{O}_{13}$  (see this Newsletter)

**Babingtonite group**

(Frank C. Hawthorne and Maxwell C. Day)

The babingtonite group has been established. It includes the minerals babingtonite,  $\text{Ca}_2\text{Fe}^{2+}\text{Fe}^{3+}[\text{Si}_5\text{O}_{14}(\text{OH})]$ , manganbabingtonite,  $\text{Ca}_2\text{Mn}^{2+}\text{Fe}^{3+}[\text{Si}_5\text{O}_{14}(\text{OH})]$ , and scandiobabingtonite,  $\text{Ca}_2\text{Fe}^{2+}\text{Sc}[\text{Si}_5\text{O}_{14}(\text{OH})]$

**Beryl supergroup**

(Peter Bačík, Jan Cempírek, Milan Novák, Jana Fridrichová, Rhiana Henry, Pavel Uher, Lee A. Groat and Martin Števkó)

The beryl supergroup has been established. Minerals of the beryl supergroup have the general formula  $ABT_1M_2(T_2O_{18})$ . Suffixes are established for the constituents of the A and B sites. The minerals avdeevite and beryllcordierite-Na have been discredited;

beryllosachanbińskiite-Na has been redefined to sachanbińskiite; pezzottaite and johnkoivulaite have been renamed to pezzottaite-(Cs) and johnkoivulaite-(Cs), respectively. The supergroup is divided into the beryl group, including the minerals beryl, bazzite, stoppaniite, pezzottaite-(Cs) and johnkoivulaite-(Cs), and the cordierite group, including the minerals cordierite, sekaninaite, sachanbińskiite, indialite and ferroindialite.

**OTHER ISSUES**

The CNMNC wishes to clarify that the approval of Proposal 04-A (March 2004) is to be understood as including the introduction of the triplite–triploidite supergroup, in accordance with Chopin *et al.* [*European Journal of Mineralogy*, **26**, 553–565 (2014)].