



## CNMNC Newsletter

# IMA Commission on New Minerals, Nomenclature and Classification (CNMNC) – Newsletter 82

Ferdinando Bosi (Chairman, CNMNC)<sup>1</sup>, Frédéric Hatert (Vice-Chairman, CNMNC)<sup>2</sup>,  
Marco Pasero (Vice-Chairman, CNMNC)<sup>3</sup> and Stuart J. Mills (Secretary, CNMNC)<sup>4</sup>

<sup>1</sup>Dipartimento di Scienze della Terra, Sapienza Università di Roma, Piazzale Aldo Moro 5, 00185 Roma, Italy – [ferdinando.bosi@uniroma1.it](mailto:ferdinando.bosi@uniroma1.it); <sup>2</sup>Laboratoire de Minéralogie et de Cristallographie, Université de Liège, Bâtiment B18, Sart Tilman, 4000 Liège, Belgium – [fhatert@uliege.be](mailto:fhatert@uliege.be); <sup>3</sup>Dipartimento di Scienze della Terra, Università di Pisa, Via Santa Maria 53, 56126 Pisa, Italy – [marco.pasero@unipi.it](mailto:marco.pasero@unipi.it) and <sup>4</sup>Gallery of Natural Art, PO Box 830460, Richardson, TX 75083, USA – [stuart@irocks.com](mailto:stuart@irocks.com)

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 OCTOBER 2024

IMA No. 2024-008a

Wangyanite

$\text{PdNi}_8\text{S}_8$

Wyn

J-M (Johns-Manville) Reef, Stillwater Co., Montana, USA

Chen Chen, Haiyang Xian, M. Christopher Jenkins, Zhuosen

Yao, Yiping Yang, Xiaoju Lin, Shan Li, Jiabin Xi, Yuhuan Yuan,  
Jianxi Zhu\* and Hongping He

\*E-mail: [zhujx@gig.ac.cn](mailto:zhujx@gig.ac.cn)

Closely related to pentlandite

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

$a = 10.117(1) \text{ \AA}$

5.846(70), 3.047(70), 1.949(31), 1.264(41), 3.577(31),  
2.923(100), 2.320(19), 1.033(17)

Type material is deposited in the collections of the Yifu  
Museum, China University of Geosciences, No. 388 Lumo Road,

**Corresponding author:** Marco Pasero; Email: [marco.pasero@unipi.it](mailto:marco.pasero@unipi.it)

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Wuhan 430074, People's Republic of China, catalogue number SW-JM1569108

How to cite: Chen, C., Xian, H., Jenkins, M.C., Yao, Z., Yang, Y., Lin, X., Li, S., Xi, J., Yuan, Y., Zhu, J. and He, H. (2024) Wangyanite, IMA 2024-008a. CNMNC Newsletter 82, *Mineralogical Magazine*, **88**, <https://doi.org/10.1180/mgm.2024.98>

IMA No. **2024-035**

Dubińskaite

$\text{Ca}_4\text{Sc}_2\text{Al}_4[\text{Be}_2\text{Si}_8\text{O}_{30}](\text{OH})_2$

Dub

Ca. 1 km W of the village Jordanów Śląski, ca. 30 km S of Wrocław, Lower Silesia, Poland (50°52'16" N, 16°50'18" E)

Marcin Stachowicz, Jakub Kotowski, Krzysztof Nejbert, Adam Szuszkiewicz, Krzysztof Woźniak and Adam Pieczka\*

\*E-mail: [pieczka@agh.edu.pl](mailto:pieczka@agh.edu.pl)

Structurally related to the minerals of the axinite group

Triclinic:  $P1$ ; structure determined

$a = 7.2469(5)$ ,  $b = 9.1246(5)$ ,  $c = 9.0102(5)$  Å,  $\alpha = 92.350(4)$ ,  $\beta = 98.558(5)$ ,  $\gamma = 77.132(5)^\circ$   
3.496(69), 3.135(77), 3.035(25), 2.974(20), 2.882(36), 2.828(100), 2.180(27), 2.169(26)

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., Kotowski, J., Nejbert, K., Szuszkiewicz, A., Woźniak, K. and Pieczka, A. (2024) Dubińskaite, IMA 2024-035. CNMNC Newsletter 82, *Mineralogical Magazine*, **88**, <https://doi.org/10.1180/mgm.2024.98>

IMA No. **2024-044**

Vanadoakasakaite-(Ce)

$\text{CaCe}(\text{V}^{3+}\text{AlMn}^{2+})(\text{Si}_2\text{O}_7)(\text{SiO}_4)\text{O}(\text{OH})$

Vak-Ce

Mogurazawa mine, Hishimachi, Kiryu, Gunma Prefecture, Japan (36°2'623" N, 139°22'59" E)

Mariko Nagashima\*, Daisuke Nishio-Hamane, Masayuki Ohnishi and Akira Harada

\*E-mail: [nagashim@yamaguchi-u.ac.jp](mailto:nagashim@yamaguchi-u.ac.jp)

Epidote supergroup

Monoclinic:  $P2_1/m$ ; structure determined

$a = 8.9089(3)$ ,  $b = 5.7390(2)$ ,  $c = 10.1212(4)$  Å,  $\beta = 113.616(4)^\circ$   
3.517(44), 2.910(22), 2.908(100), 2.870(37), 2.722(33), 2.707(36), 2.623(53), 2.592(28)

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-M52312

How to cite: Nagashima, M., Nishio-Hamane, D., Ohnishi, M. and Harada, A. (2024) Vanadoakasakaite-(Ce), IMA 2024-044. CNMNC Newsletter 82, *Mineralogical Magazine*, **88**, <https://doi.org/10.1180/mgm.2024.98>

IMA No. **2024-047**

Friisite

$\text{Pb}_8\text{Al}_3\text{Si}_8\text{O}_{27}\text{Cl}_3$

Fii

Långban deposit, Filipstad district, Värmland, Sweden (59.85°N, 14.26°E, 215 m a.s.l.)

Dan Holtstam\*, Fernando Cámara and Andreas Karlsson

\*E-mail: [dan.holtstam@nrm.se](mailto:dan.holtstam@nrm.se)

Structurally related to jagoite

Hexagonal:  $P\bar{6}2c$ ; structure determined

$a = 8.5955(1)$ ,  $c = 23.4092(2)$  Å

5.848(31), 5.375(20), 4.040(96), 3.680(40), 3.463(10), 2.886(21), 2.795(20), 2.483(35)

Type material is deposited in the collections of the Department of Geosciences, Swedish Museum of Natural History, Box 50007, SE-10405 Stockholm, Sweden, collection number GEO-NRM #19610234

How to cite: Holtstam, D., Cámara, F. and Karlsson, A. (2024) Friisite, IMA 2024-047. CNMNC Newsletter 82, *Mineralogical Magazine*, **88**, <https://doi.org/10.1180/mgm.2024.98>

IMA No. **2024-048**

Olgafrankite

$\text{Ni}_3\text{Ge}$

Ofk

Dzhaltul intrusion, Siberian platform, 200 km S of the Noril'sk ore region, Russia (67°13'21.0" N, 88°25'13.6" E)

Oleg S. Vereshchagin\*, Maya O. Khmel'nitskaya, Albina G. Kopylova, Yulia V. Solov'eva, Maria G. Krzhizhanovskaya, Anatoly V. Kasatkin, Liudmila A. Gorelova, Natalia S. Vlasenko and Sergey N. Britvin

\*E-mail: [oleg-vereschagin@yandex.ru](mailto:oleg-vereschagin@yandex.ru)

Perovskite supergroup

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

$a = 3.5784(2)$  Å

2.066(100), 1.789(38), 1.265(15), 1.079(20), 1.033(5)

Type material is deposited in the collections of the Mineralogical Museum, Department of Mineralogy, St. Petersburg State University, Universitetskaya Emb. 7/9, 199034 St. Petersburg, Russia, catalogue number 1/20138 (holotype), and the Fersman Mineralogical Museum, Russian Academy of Sciences, Leninsky Pr. 18-2, 119071 Moscow, Russia, registration number 6156/1 (anthropotype)

How to cite: Vereshchagin, O.S., Khmel'nitskaya, M.O., Kopylova, A.G., Solov'eva, Y.V., Krzhizhanovskaya, M.G., Kasatkin, A.V., Gorelova, L.A., Vlasenko, N.S. and Britvin, S.N. (2024) Olgafrankite, IMA 2024-048. CNMNC Newsletter 82, *Mineralogical Magazine*, **88**, <https://doi.org/10.1180/mgm.2024.98>

IMA No. **2024-049**

Stankeithite

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

Stnk

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

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

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

The MnMn analogue of denningite

Tetragonal:  $P4_2/nbc$ ; structure determined

$a = 8.7694(4)$ ,  $c = 12.9687(8)$  Å

4.380(96), 3.357(100), 3.090(78), 2.610(82), 2.021(82), 1.893(35), 1.743(36), 1.518(51)

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. 22738 (holotype), and the RRUFF Project, deposition no. R240009 (cotype)

How to cite: Yang, H., Gu, X., Jenkins, R.A., Gibbs, R.B. and Downs, R.T. (2024) Stankeithite, IMA 2024-049. CNMNC Newsletter 82, *Mineralogical Magazine*, **88**, <https://doi.org/10.1180/mgm.2024.98>

IMA No. **2024-050**

Marsaalamite-(Y)

$Y(\text{MoO}_4)(\text{OH})$

Maa-Y

In highly evolved F-rich granite, Um Safi area, Central Eastern Desert, Egypt

Nasser Mourad Mahdy\*, Martin Ondrejka, Peter Bačík, Cristian Biagioni, Jiří Sejkora, Pavel Uher, Martin Števko, Hans-Jürgen Förster and Tomáš Mikuš

\*E-mail: [nassermahdy91@yahoo.com](mailto:nassermahdy91@yahoo.com)

Isotypic with synthetic  $Y(\text{MoO}_4)\text{F}$

Monoclinic:  $P2_1/c$

$a = 5.1863(7)$ ,  $b = 12.3203(11)$ ,  $c = 6.6953(7)$  Å,  $\beta = 114.173(8)^\circ$

6.162(22), 4.465(45), 3.793(70), 3.248(38), 3.126(100), 2.839(35), 2.570(34), 1.945(32)

Type material is deposited in the collections of the Museo di Storia Naturale, Università di Pisa, Via Roma 79, I-56011 Calci (PI), Italy, catalogue number 20074

How to cite: Mahdy, N.M., Ondrejka, M., Bačík, P., Biagioni, C., Sejkora, J., Uher, P., Števko, M., Förster, H.-J. and Mikuš, T. (2024) Marsaalamite-(Y), IMA 2024-050. CNMNC Newsletter 82, *Mineralogical Magazine*, **88**, <https://doi.org/10.1180/mgm.2024.98>

IMA No. **2024-051**

Slottaite

$\text{SrFe}_3^{3+}(\text{PO}_4)(\text{SO}_4)(\text{OH})_6$

Soi

Clara mine, Oberwolfach mining area, Wolfach, Schwarzwald, Baden-Württemberg, Germany (48°22'46" N, 8°13'44" E)

Jakub Plášil, Anatoly V. Kasatkin\*, Gwladys Steciuk, Vladislav V. Gurzhiy, Atali A. Agakhanov, Marina F. Vigasina and Dmitriy I. Belakovskiy

\*E-mail: [anatoly.kasatkin@gmail.com](mailto:anatoly.kasatkin@gmail.com)

Alunite supergroup

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

$a = 7.2817(3)$ ,  $c = 16.8198(3)$  Å

5.906(90), 3.640(36), 3.099(21), 3.054(100), 2.247(37), 1.968(25), 1.820(25), 1.487(18)

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 6155/1

How to cite: Plášil, J., Kasatkin, A.V., Steciuk, G., Gurzhiy, V.V., Agakhanov, A.A., Vigasina, M.F. and Belakovskiy, D.I. (2024) Slottaite, IMA 2024-051. CNMNC Newsletter 82, *Mineralogical Magazine*, **88**, <https://doi.org/10.1180/mgm.2024.98>

IMA No. **2024-052**

Hyblerite

$\text{Pb}_4\text{Bi}_2(\text{SO}_4)_2(\text{CO}_3)\text{O}_4$

Hyi

Clara mine, Oberwolfach mining area, Wolfach, Schwarzwald, Baden-Württemberg, Germany (48°22'46" N, 8°13'44" E)

Jakub Plášil, Anatoly V. Kasatkin\*, Radek Škoda, Vladislav V. Gurzhiy, Atali A. Agakhanov and Carsten Slotta

\*E-mail: [anatoly.kasatkin@gmail.com](mailto:anatoly.kasatkin@gmail.com)

New structure type

Orthorhombic:  $Cmcm$ ; structure determined

$a = 5.5228(9)$ ,  $b = 14.265(2)$ ,  $c = 17.797(2)$  Å

6.624(32), 3.901(25), 3.365(40), 3.082(100), 2.970(36), 2.803(37), 2.64(45), 2.285(21)

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 6153/1

How to cite: Plášil, J., Kasatkin, A.V., Škoda, R., Gurzhiy, V.V., Agakhanov, A.A. and Slotta, C. (2024) Hyblerite, IMA 2024-052. CNMNC Newsletter 82, *Mineralogical Magazine*, **88**, <https://doi.org/10.1180/mgm.2024.98>

**NEW MINERAL PROPOSALS APPROVED IN NOVEMBER 2024**

IMA No. **2024-046**

Peprssiite-(Y)

$\text{YAl}_2(\text{B}_{3.67}\text{Si}_{0.33})\text{O}_{10.67}$

Pep-Y

Dorozhniy pegmatite, left bank of the Kukurt river, 45 km E of Murghab, Eastern Pamir, Badakhshan Mountainous Autonomous Region, Tajikistan (38°18'44" N, 74°24'38" E; 4525 m a.s.l.)

Mirak A. Mirakov, Leonid A. Pautov, Artem S. Borisov, Oleg I. Siidra\*, Elena S. Zhitova, Vladimir Y. Karpenko, Saymudasiri Makhmadsharif and Manuchekhr A. Shodibekov

\*E-mail: [siidra@mail.ru](mailto:siidra@mail.ru)

The Y analogue of peprssiite-(Ce)

Trigonal:  $P\bar{3}1m$ ; structure determined

$a = 4.5872(2)$ ,  $c = 9.2129(3)$  Å

9.22(46), 4.02(42), 3.655(100), 3.011(74), 2.432(27), 2.297(22), 1.991(24), 1.836(22)

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 6139/1

How to cite: Mirakov, M.A., Pautov, L.A., Borisov, A.S., Siidra, O.I., Zhitova, E.S., Karpenko, V.Y., Makhmadsharif, S. and Shodibekov, M.A. (2024) Peprssiite-(Y), IMA 2024-046. CNMNC Newsletter 82, *Mineralogical Magazine*, **88**, <https://doi.org/10.1180/mgm.2024.98>

IMA No. **2024-053**

Barronite

$(\square_{0.5}\text{Ba}_{0.5})(\text{UO}_2)_2\text{Si}_5\text{O}_{12}(\text{OH})\cdot 2\text{H}_2\text{O}$

Barr

Menzenschwand/Krunkelbach deposit, Black Forest Mts. (Schwarzwald), Baden-Württemberg, Germany (47°50'19.60" N, 8°02'43.38" E)

Jakub Plášil\*, Gwladys Steciuk, Radek Škoda, Jiří Sejkora, Zdeněk Dolníček, Nicolas Meisser, Stefan Ansermet and Carsten Slotta

\*E-mail: [plasil@fzu.cz](mailto:plasil@fzu.cz)

Structurally related to weeksite

Monoclinic:  $C2/m$ ; structure determined

$a = 14.211(1)$ ,  $b = 14.017(2)$ ,  $c = 9.6545(8)$  Å,  $\beta = 111.59(6)^\circ$

8.96(63), 7.10(100), 5.564(44), 3.842(23), 3.550(45), 3.299(32), 3.175(31), 2.915(37)

Cotype material is deposited in the collections of the Department of Mineralogy and Petrology, National Museum,

Cirkusová 1740, 19300 Praha 9, Czech Republic, catalogue number P1P27/2024, and the Muséum Cantonal des Sciences Naturelles (Naturéum), Département de Géologie, Université de Lausanne, Anthropole, Dorigny, CH-1015 Lausanne, Switzerland, catalogue number MGL 087280

How to cite: Plášil, J., Steciuk, G., Škoda, R., Sejkora, J., Dolníček, Z., Meisser, N., Ansermet, S. and Slotta, C. (2024) Barronite, IMA 2024-053. CNMNC Newsletter 82, *Mineralogical Magazine*, **88**, <https://doi.org/10.1180/mgm.2024.98>

#### IMA No. 2024-054

Fluormacraeite

$[(\text{H}_2\text{O})\text{K}]\text{Mn}_2(\text{Fe}_2\text{Ti})(\text{PO}_4)_4(\text{OF})(\text{H}_2\text{O})_{10}\cdot 4\text{H}_2\text{O}$

Fmacr

On the dumps of the Lindner mine, Plößberg-Wildenau pegmatite, Plößberg, Tirschenreuth District, Upper Palatinate, Bavaria, Germany

Ian E. Grey\*, Anthony R. Kampf, Stephanie Boer, Rupert Hochleitner, Christian Rewitzer, William G. Mumme, Nicholas C. Wilson and Cameron J. Davidson

\*E-mail: [ian.grey@csiro.au](mailto:ian.grey@csiro.au)

Paulkerrite group

Monoclinic:  $P2_1/c$ ; structure determined

$a = 10.546(2)$ ,  $b = 20.655(1)$ ,  $c = 12.405(1)$  Å,  $\beta = 90.09(1)^\circ$   
10.25(74), 7.49(66), 6.21(84), 5.208(47), 3.735(61), 3.142(100), 3.023(51), 2.884(78)

Type material is deposited in the collections of the Mineralogical State Collection (SNSB), Theresienstrasse 41, 80333 München, Germany, registration number MSM38573 (holotype), and the Natural History Museum of Los Angeles County, 900 Exposition Boulevard, Los Angeles, CA 90007, USA, catalogue number 76422 (cotype)

How to cite: Grey, I.E., Kampf, A.R., Boer, S., Hochleitner, R., Rewitzer, C., Mumme, W.G., Wilson, N.C. and Davidson, C.J. (2024) Fluormacraeite, IMA 2024-054. CNMNC Newsletter 82, *Mineralogical Magazine*, **88**, <https://doi.org/10.1180/mgm.2024.98>

#### IMA No. 2024-056

Amaterasuite

$\text{Sr}_4\text{Ti}_6\text{Si}_4\text{O}_{23}(\text{OH})\text{Cl}$

Asu

Osayama mountain area, Osa-osakabe, Niimi, Okayama Prefecture, Kibi Province, Japan ( $35^\circ 05' 38''$  N,  $133^\circ 33' 01''$  E)

Daisuke Nishio-Hamane\*, Mariko Nagashima, Masayuki Ohnishi, Norimasa Shimobayashi, Takashi Matsumoto and Mitsuo Tanabe

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

New structure type

Orthorhombic:  $Fddd$ ; structure determined

$a = 5.8603(3)$ ,  $b = 20.4616(7)$ ,  $c = 33.281(1)$  Å  
3.341(67), 3.228(63), 3.165(100), 2.886(60), 2.741(56), 2.668(56), 2.591(53), 2.222(93)

Type material is deposited in the collections of the National Museum of Nature and Science, Tsukuba, Ibaraki 305-0005, Japan, specimen number NSM-M52596

How to cite: Nishio-Hamane, D., Nagashima, M., Ohnishi, M., Shimobayashi, N., Matsumoto, T. and Tanabe, M. (2024) Amaterasuite, IMA 2024-056. CNMNC Newsletter 82, *Mineralogical Magazine*, **88**, <https://doi.org/10.1180/mgm.2024.98>

#### IMA No. 2024-057

Nioboixiolite-(Fe<sup>3+</sup>)

$(\text{Nb}_{0.5}\text{Fe}_{0.5}^{3+})\text{O}_2$

Nbix-Fe<sup>3+</sup>

“In den Dellen” (Zieglowski) pumice quarry, 1.5 km north-east of Mendig, Laach Lake (Laacher See) volcano, Eifel region, Rhineland-Palatinate, Germany ( $50^\circ 23' 40''$  N,  $7^\circ 17' 12''$  E)

Nikita V. Chukanov\*, Natalia V. Zubkova, Igor V. Pekov, Anatoly V. Kasatkin, Atali A. Agakhanov, Bernd Ternes, Willi Schüller and Sergey N. Britvin

\*E-mail: [nikchukanov@yandex.ru](mailto:nikchukanov@yandex.ru)

Columbite supergroup

Orthorhombic:  $Pbcn$ ; structure determined

$a = 4.6578(6)$ ,  $b = 5.6230(7)$ ,  $c = 5.0182(5)$  Å  
3.586(29), 2.917(100), 2.503(18), 2.170(18), 2.056(15), 1.738(22), 1.689(26), 1.515(15)

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 6169/1

How to cite: Chukanov, N.V., Zubkova, N.V., Pekov, I.V., Kasatkin, A.V., Agakhanov, A.A., Ternes, B., Schüller, W. and Britvin, S.N. (2024) Nioboixiolite-(Fe<sup>3+</sup>), IMA 2024-057. CNMNC Newsletter 82, *Mineralogical Magazine*, **88**, <https://doi.org/10.1180/mgm.2024.98>

#### IMA No. 2024-058

Rotemite

$\text{Ca}_4\text{Cr}_2(\text{OH})_{12}\text{Cl}_2\cdot 4\text{H}_2\text{O}$

Rot

North-western part of the Halamish quarry, Hatrurim complex, Negev desert, Israel ( $31^\circ 10' 06.6''$  N,  $35^\circ 17' 30.3''$  E)

Katarzyna Skrzyńska\*, Biljana Krüger, Rafał Juroszek, Georgia Cametti, Anna Pakhomova, Grzegorz Kaproń, Irina Galuskina, Yevgeny Vapnik, Krzysztof Woźniak and Evgeny V. Galuskin

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

Hydrotalcite supergroup

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

$a = 5.7944(2)$ ,  $c = 46.69(4)$  Å  
7.78(100), 3.888(19), 3.798(13), 2.890(27), 2.319(13), 2.300(6), 2.115(8), 1.668(7)

Type material is deposited in the collections of the Earth and Man National Museum, Cherni Vrah Blvd. 4, 1421 Sofia, Bulgaria, catalogue number 40450

How to cite: Skrzyńska, K., Krüger, B., Juroszek, R., Cametti, G., Pakhomova, A., Kaproń, G., Galuskina, I., Vapnik, Y., Woźniak, K. and Galuskin, E.V. (2024) Rotemite, IMA 2024-058. CNMNC Newsletter 82, *Mineralogical Magazine*, **88**, <https://doi.org/10.1180/mgm.2024.98>

#### IMA No. 2024-059

Fuyuanite

$\text{Mg}_7\text{Nb}_6\text{O}_{18}(\text{OH})_8$

Fuy

Bayan Obo polymetallic deposit, northern margin of the North China Craton (NCC), China ( $41^\circ 48' 08''$  N,  $109^\circ 54' 50''$  E)

Haidong She, Hongrui Fan\*, Yunxiang Zhan, Xiangping Gu, Xiaochun Li, Kuifeng Yang and Qiwei Wang

\*E-mail: [fanhr@mail.iggcas.ac.cn](mailto:fanhr@mail.iggcas.ac.cn)

Loose chemical relations with oboniobite

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

$a = 10.7174(5)$ ,  $c = 4.7110(2)$  Å



5.373(29), 4.693(68), 4.205(38), 3.524(66), 2.811(100), 2.581(62), 2.259(72), 1.738(61)

Type material is deposited in the collections of the Geological Museum of China, No. 15, Yangrou Hutong, Xicheng District, 100034 Beijing, People's Republic of China, catalogue number GMCTM2024008 (holotype), and the Geology Museum, Institute of Geology and Geophysics, Chinese Academy of Sciences, No. 19, Beitucheng Western Road, Chaoyang District, 100029 Beijing, People's Republic of China, catalogue number M8239

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#### IMA No. 2024-061

Zanelliite

$\text{PbCu}_9[\text{AsO}_{3.5}(\text{OH})_{0.5}]_2(\text{AsO}_4)_2(\text{OH})_9(\text{H}_2\text{O})_3$

Znl

On the dumps of the Grosses Chaltal deposit, Mürtchenalp district, Glarus, Switzerland (47°04'10.12" N, 9°11'24.01" E)

Cristian Biagioni\*, Philippe Roth, Julien Reynes, Martin Robyr and Nicolas Meisser

\*E-mail: [cristian.biagioni@unipi.it](mailto:cristian.biagioni@unipi.it)

New structure type

Monoclinic:  $C2/c$ ; structure determined

$a = 39.395(7)$ ,  $b = 5.5563(9)$ ,  $c = 10.537(2)$  Å,  $\beta = 95.109(6)^\circ$   
19.7(vs), 4.86(s), 4.48(m), 4.28(m), 3.777(m), 2.964(s), 2.708(s), 2.569(m)

Cotype material is deposited in the collections of the Museum Cantonal des Sciences Naturelles (Naturéum), Département de Géologie, Université de Lausanne, Anthropole, Dorigny, CH-1015 Lausanne, Switzerland, catalogue number MGL 087285, and the Museo di Storia Naturale, Università di Pisa, Via Roma 79, I-56011 Calci (PI), Italy, catalogue number 20077

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#### IMA No. 2024-062

Amurselite

$(\text{NH}_4)_2(\text{UO}_2)_5(\text{SeO}_3)_3\text{O}_2(\text{OH})_2(\text{H}_2\text{O}) \cdot 8\text{H}_2\text{O}$

Amu

Burro mine, Slick Rock district, San Miguel Co., Colorado, USA (38°02'42" N, 108°53'22" W)

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

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

New structure type

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

$a = 8.598(3)$ ,  $b = 9.088(3)$ ,  $c = 11.071(4)$  Å,  $\alpha = 83.644(7)$ ,  $\beta = 68.776(7)$ ,  $\gamma = 79.940(8)^\circ$   
8.077(100), 4.063(16), 3.532(42), 3.258(52), 2.937(24), 2.681(17), 2.082(13), 1.755(18)

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 76444

How to cite: Kampf, A.R., Olds, T.A., Emproto, C., Ma, C. and Marty, J. (2024) Amurselite, IMA 2024-062. CNMNC Newsletter 82, *Mineralogical Magazine*, **88**, <https://doi.org/10.1180/mgm.2024.98>

## OTHER ISSUES

### Revised formula for peprossiite-(Ce)

In the IMA List of Minerals the current formula of peprossiite-(Ce),  $(\text{Ce},\text{La})(\text{Al}_3\text{O})_{2/3}\text{B}_4\text{O}_{10}$ , is not charge-balanced. Following the approval of the new mineral peprossiite-(Y) (IMA 2024-046; this Newsletter), and the re-examination of the latest analytical data on holotype peprossiite-(Ce) [*American Mineralogist*, **85**, 586–593 (2000)], it was agreed to modify the formula to  $\text{CeAl}_2(\text{B}_{3.67}\text{Si}_{0.33})\text{O}_{10.67}$ .

### Revised mineral symbols

After the approval of the new mineral nioboixiolite-(Fe<sup>3+</sup>) (IMA 2024-057; this Newsletter), for which the symbol Nbix-Fe<sup>3+</sup> is adopted, it was agreed that all minerals including an extended Levinson suffix in their name should contain the same suffix in the symbol. Accordingly, the symbol for three newly approved minerals is modified as follows:

Ixiolite-(Fe<sup>2+</sup>) – new symbol Ix-Fe<sup>2+</sup> (old symbol Ix-Fe changed)

Ixiolite-(Mn<sup>2+</sup>) – new symbol Ix-Mn<sup>2+</sup> (old symbol Ix-Mn changed)

Nioboixiolite-(Mn<sup>2+</sup>) – new symbol Nbix-Mn<sup>2+</sup> (old symbol Nbix-Mn changed)

This is an executive decision taken by the CNMNC officers.