



IMA Commission on New Minerals, Nomenclature and Classification (CNMNC) – Newsletter 80

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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 2024

IMA no. 2024-002

Scandio-fluoro-eckermannite

$\text{NaNa}_2(\text{Mg}_4\text{Sc})(\text{Si}_8\text{O}_{22})\text{F}_2$

Sfeck

Bayan Obo deposit, northern margin of the North China Craton, Inner Mongolia, China (41°47'59" N, 109°58'31.8" E)

Shuang-Liang Liu, Hong-Rui Fan*, Xiang-Ping Gu, Hai-Dong She, Kui-Feng Yang, Xiao-Chun Li, Qi-Wei Wang, Zhan-Feng Yang, Yong-Gang Zhao, and Feng-Gang Wang

* E-mail: fanhr@mail.iggcas.ac.cn

Amphibole supergroup

Monoclinic: $C2/m$; structure determined

$a = 9.8212(3)$, $b = 18.0866(5)$, $c = 5.3091(2)$ Å,
 $\beta = 103.767(4)^\circ$
 8.523(72), 4.874(25), 4.499(43), 3.407 (56), 3.282(36),
 3.126(47), 2.720(100), 2.530(45)

Type material is deposited in the collections of the Geology Museum, Institute of Geology and Geophysics, Chinese Academy of Sciences, No. 19 Beitucheng Western Road, Chaoyang District, Beijing 100029, People's Republic of China, catalogue numbers BY111 (holotype) and M8238 (cotype), and the Geological Museum of China, No. 15 Yangrou Hutong, Xicheng District, Beijing 100034, People's Republic of China, catalogue number GMCTM2024002 (cotype)

How to cite: Liu, S.-L., Fan, H.-R., Gu, X.-P., She, H.-D., Yang, K. F., Li, X.-C., Wang, Q.-W., Yang, Z.-F., Zhao, Y.-G., and Wang, F.-G.: Scandio-fluoro-eckermannite, IMA 2024-002, in: CNMNC Newsletter 80, Eur. J. Mineral., 36, <https://doi.org/10.5194/ejm-36-599-2024>, 2024.

IMA no. 2024-005

Berndlehmannite

$\text{Cu}(\text{CrV})\text{S}_4$

Blm

Zhongcun deposit, about 45 km southeast of Shanyang County, Shaanxi Province, China (33°25' N, 110°10' E)

Xuerui Fu, Guowu Li, Lingang Xu*, Yuan Xue, Ningyue Sun, Jinhua Hao, Wei Jian, Hao Yan, Huishou Ye, Jianhua Ding, and Peng Yuan

* E-mail: xulingang@cugb.edu.cn

Spinel supergroup

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

$a = 9.8374(2)$ Å
 3.489(48), 2.973(100), 2.463(45), 2.010(11), 1.894(40),
 1.739(68), 1.821(10), 1.004(16)

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 GMCTM2024001 (holotype), and the Department of Earth Sciences and Resources, China University of Geosciences, Xueyuanlu Street 29, Beijing 100083, People's Republic of China, catalogue number CUGB-ZC-001 (cotype)

How to cite: Fu, X., Li, G., Xu, L., Xue, Y., Sun, N., Hao, J., Jian, W., Yan, H., Ye, H., Ding, J., and Yuan, P.: Berndlehmannite, IMA 2024-005, in: CNMNC Newsletter 80, Eur. J. Mineral., 36, <https://doi.org/10.5194/ejm-36-599-2024>, 2024.

IMA no. 2024-006

Auropolybasite

$[\text{Ag}_9\text{AuS}_4][\text{Ag}_6\text{Sb}_2\text{S}_7]$

Auplb

Šibeničný vrch deposit, near Nová Baňa, Žarnovica Co., Banská Bystrica Region, Slovakia (48°24'49" N, 18°38'14" E)

Tomáš Mikuš*, Jozef Vlasáč, Juraj Majzlan, Jakub Plášil, Václav Petříček, Martin Števko, Jiří Sejkora, Emil Makovický, and Peter Tuček

* E-mail: mikus@savbb.sk

Pearceite–polybasite group

Trigonal: $P321$; structure determined

$a = 15.1091(5)$, $c = 12.1518(5)$ Å
 12.15(50), 3.158(79), 3.038(100), 2.880(69), 2.545(46),
 2.467(40), 2.226(52), 1.889(62)

Type material is deposited in the collections of the Department of Mineralogy and Petrology, National Museum, Cirkusová 1740, 19300 Prague 9, Czech Republic, catalogue number P1P 61/2021

How to cite: Mikuš, T., Vlasáč, J., Majzlan, J., Plášil, J., Petříček, V., Števko, M., Sejkora, J., Makovický, E., and Tuček, P.: Auropolybasite, IMA 2024-006, in: CNMNC Newsletter 80, Eur. J. Mineral., 36, <https://doi.org/10.5194/ejm-36-599-2024>, 2024.

IMA no. 2024-007

Karlseifertite

$\text{Pb}(\text{Ga}_2\text{Ge})(\text{AsO}_4)_2(\text{OH})_6$

Karl

Tsumeb mine, Tsumeb, Namibia (19°15' S, 17°42' E)

Anthony R. Kampf*, Joy Désor, and Chi Ma

* E-mail: akampf@nhm.org

Alunite supergroup

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

$a = 7.2814(7)$, $c = 17.108(1)$ Å
 5.919(50), 3.644(29), 3.073(100), 2.853(19), 2.540(19),
 2.280(27), 1.973(27), 1.821(23)

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 76334 (holotype) and 76335 (cotype)

How to cite: Kampf, A. R., Désor, J., and Ma, C.: Karlseifertite, IMA 2024-007, in: CNMNC Newsletter 80, Eur. J. Mineral., 36, <https://doi.org/10.5194/ejm-36-599-2024>, 2024.

IMA no. 2024-009

Chinleite-(Ce)

$\text{NaCe}(\text{SO}_4)_2(\text{H}_2\text{O})$

Chi-Ce

Blue Streak mine, Bull Canyon, Montrose Co., Colorado, USA (38°11'57" N, 108°50'24" W)

Anthony R. Kampf*, Chi Ma, and Joe Marty

* E-mail: akampf@nhm.org

The Ce analogue of chinleite-(Y) and chinleite-(Nd)

Trigonal: $P3_21$

$a = 7.0211(11)$, $c = 12.942(3)$ Å

6.082(57), 5.481(25), 3.511(54), 3.045(100), 2.854(100), 2.164(44), 1.875(60), 1.717(24)

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 76336, 76337, and 76338

How to cite: Kampf, A. R., Ma, C., and Marty, J.: Chinleite-(Ce), IMA 2024-009, in: CNMNC Newsletter 80, Eur. J. Mineral., 36, <https://doi.org/10.5194/ejm-36-599-2024>, 2024.

IMA no. 2024-010

Nannoniite

$\text{Al}_2(\text{OH})_5\text{F}$

Nnn

Cetine di Cotorniano Mine, Chiusdino, Siena, Tuscany, Italy (43°13' N, 11°09' E)

Cristian Biagioni*, Enrico Mugnaioli, Sofia Lorenzon, Daniela Mauro, Silvia Musetti, Jiří Sejkora, Donato Belmonte, Nicola Demitri, and Zdeněk Dolníček

* E-mail: cristian.biagioni@unipi.it

Closely related to gibbsite

Monoclinic: $P2_1/n$; structure determined

$a = 8.688(3)$, $b = 5.024(2)$, $c = 9.734(4)$ Å, $\beta = 90.77(2)^\circ$
4.86(vs), 4.35(s), 3.241(m), 2.427(ms), 2.223 (mw), 1.981(m), 1.742(mw), 1.447(m)

Type material is deposited in the collections of the Museo di Storia Naturale, Università di Pisa, Via Roma 79, Calci (PI), Italy, catalogue numbers 20071 (holotype) and 20072 (cotype)

How to cite: Biagioni, C., Mugnaioli, E., Lorenzon, S., Mauro, D., Musetti, S., Sejkora, J., Belmonte, D., Demitri, N., and Dolníček, Z.: Nannoniite, IMA 2024-010, in: CNMNC Newsletter 80, Eur. J. Mineral., 36, <https://doi.org/10.5194/ejm-36-599-2024>, 2024.

IMA no. 2024-012

Ohtaniite

$\text{Mg}_3(\text{Si}_{0.5}\square_{0.5})\text{Si}_2\text{O}_8$

Oht

Suizhou meteorite, Xihe, Zengdu District, Suizhou, Hubei, China (31°37' N, 113°28' E)

Luca Bindi*, Zhidong Xie, Thomas G. Sharp, and Xiande Xie

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

Isostructural with wadsleyite

Orthorhombic: *Imma*; structure determined

$a = 5.5820(10)$, $b = 11.418(3)$, $c = 7.708(2)$ Å

3.06(40), 2.560(60), 2.510(55), 2.415(90), 2.162(40), 2.000(80), 1.925(25), 1.388(100)

Type material is deposited in the collections of the Museo di Storia Naturale, Università di Firenze, Via La Pira 4, 50121 Florence, Italy, catalogue number 3238/I

How to cite: Bindi, L., Xie, Z., Sharp, T. G., and Xie, X.: Nannoniite, IMA 2024-010, in: CNMNC Newsletter 80, Eur. J. Mineral., 36, <https://doi.org/10.5194/ejm-36-599-2024>, 2024.

2 New mineral proposals approved in July 2024

IMA no. 2021-085

Calciopharmacoalumite

$\text{Ca}_{0.5}\text{Al}_4(\text{AsO}_4)_3(\text{OH})_4 \cdot 5\text{H}_2\text{O}$

Cpal

Obdilya mine, near the village of Chauvai, Batkenskaya region, Kyrgyzstan (40°08'27.6432" N, 72°05'15.7344" E)

Vladimir Y. Karpenko, Leonid A. Pautov, Elena S. Zhitova, Oleg I. Siidra*, Atali A. Agakhanov, Nikita A. Zolotov, and Vladimir N. Bocharov

* E-mail: siidra@mail.ru

Pharmacoalumite group

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

$a = 7.758(5)$ Å

7.76(100), 4.472(60), 3.880(33), 3.166(30), 2.746(51), 2.457(16), 2.339(19), 2.226(13)

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 5744/1

How to cite: Karpenko, V. Y., Pautov, L. A., Zhitova, E. S., Siidra, O. I., Agakhanov, A. A., Zolotov, N. A., and Bocharov, V. N.: Calciopharmacoalumite, IMA 2021-085, in: CNMNC Newsletter 80, Eur. J. Mineral., 36, <https://doi.org/10.5194/ejm-36-599-2024>, 2024.

IMA no. 2023-003a

Touretite

$\text{LiAl}_4\text{Be}_4(\text{B}_{11}\text{Be})\text{O}_{28}$

Tte

Ambalabe Pegmatite, Manapa, Betafo, Vakinankaratra region, Madagascar (20°14'25" S, 47°01'18" E)

Frédéric Hatert*, Federico Pezzotta, Pietro Vignola, Markus Wälle, Pierre Lefèvre, Radek Škoda, Anatoly V. Kasatkin, Atali A. Agakhanov, Natalia V. Zubkova, Mattia Bonazzi, Alberto Zanetti, Nicola Rotiroti, Andrea Risplendente, Martin Depret, and Florent Bomal

* E-mail: fhatert@uliege.be

Isostructural with rhodizite and londonite

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

$a = 7.3120(1) \text{ \AA}$
 7.267(64), 3.261(37), 2.976(100), 2.576(17), 2.431(13),
 2.306(17), 2.104(30), 1.826(13)

Type material is deposited in the collections of the Laboratoire de Minéralogie, University of Liege, Bâtiment B18, Sart Tilman, 4000 Liège, Belgium, catalogue number ULG-21979, and the Museo Civico di Storia Naturale, Corso Venezia 55, 20121 Milan, Italy, catalogue number M39042

How to cite: Hatert, F., Pezzotta, F., Vignola, P., Wälle, M., Lefèvre, P., Škoda, R., Kasatkin, A. V., Agakhanov, A. A., Zubkova, N. V., Bonazzi, M., Zanetti, A., Rotiroti, N., Risplendente, A., Depret, M., and Bomal, F.: Touretite, IMA 2023-003a, in: CNMNC Newsletter 80, Eur. J. Mineral., 36, <https://doi.org/10.5194/ejm-36-599-2024>, 2024.

IMA no. 2023-045a

Vegrandisite

BaCl₂

Veg

In a quartz vein, Biely Vrch deposit, Javorie stratovolcano, 3.5 km southeast of the town Detva, Slovakia (48°33'31" N, 19°22'28" E)

Peter Koděra*, Juraj Majzlan, Kilian Pollok, and František Šimko

* E-mail: koderal@uniba.sk

Known synthetic analogue

Orthorhombic: *Pnma*

$a = 7.80(3)$, $b = 4.71(2)$, $c = 9.60(9) \text{ \AA}$

4.041(55), 3.933(60), 2.880(66), 2.616(67), 2.366(100), 2.355(86), 2.021(55), 1.966(60)

Type material is deposited in the collections of the Mineralogical Museum, Comenius University, Ilkovičova 6, Bratislava 842 15, Slovakia, catalogue number 7400

How to cite: Koděra, P., Majzlan, J., Pollok, K., and Šimko, F.: Vegrandisite, IMA 2023-045a, in: CNMNC Newsletter 80, Eur. J. Mineral., 36, <https://doi.org/10.5194/ejm-36-599-2024>, 2024.

IMA no. 2024-011

Juxingite

Bi₆Cu₁₄₀Fe₃₀S₁₂₅

Jux

Jiama deposit, Tibet, China (29°43'53" N, 91°43'06" E)

Feng-Hua Gu, Yong-Mei Zhang*, Xiang-Ping Gu, Guang Fan, Si-Hong Jiang, Yu Zhao, Zhong-Liang Cui, and Zheng-Kun Yang

* E-mail: zhangyongmei@cugb.edu.cn

Chemically and structurally related to bornite

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

$a = 27.3529(5) \text{ \AA}$

3.819(6), 3.325(27), 3.230(9), 3.155(28), 2.738(15), 1.932(100), 1.649(8), 1.368(7)

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-CTM2023013

How to cite: Gu, F.-H., Zhang, Y.M., Gu, X.-P., Fan, G., Jiang, S.-H., Zhao, Y., Cui, Z.-L., and Yang, Z.-K.: Juxingite, IMA 2024-011, in: CNMNC Newsletter 80, Eur. J. Mineral., 36, <https://doi.org/10.5194/ejm-36-599-2024>, 2024.

IMA no. 2024-013

Parisite-(Nd)

CaNd₂(CO₃)₃F₂

Pst-Nd

Bayan Obo deposit, 130 km north of the city of Baotou, Inner Mongolia, China (41°47'57" N, 109°57'40" E)

Chenzi Fan*, Hong Yu, Xiangping Gu, Pusheng Zeng, and Zhenyu Chen

* E-mail: czfan2013@163.com

The Nd-dominant analogue of parisite-(Ce) and parisite-(La)

Monoclinic: *Cc*

$a = 12.328(1)$, $b = 7.1185(4)$, $c = 28.463(4) \text{ \AA}$,
 $\beta = 98.53(1)^\circ$

14.336(75), 6.926(28), 4.720(61), 3.558(80), 2.835(100), 2.056(43), 1.959(39), 1.880(29)

Type material is deposited in the collections of the National Research Center of Geoanalysis, Baiwanzhuang Street 26, Beijing, People's Republic of China (holotype), catalogue number NRCGA2024001, and the Geological Museum of China, Yangrouhutong Street 15, Xicheng District, Beijing, People's Republic of China, catalogue number GM-CTM2024003 (cotype)

How to cite: Fan, C., Yu, H., Gu, X., Zeng, P., and Chen, Z.: Parisite-(Nd), IMA 2024-013, in: CNMNC Newsletter 80, Eur. J. Mineral., 36, <https://doi.org/10.5194/ejm-36-599-2024>, 2024.

IMA no. 2024-015

Dacostaite

K(Mg₂Al)[Mg(H₂O)₆]₂(AsO₄)₂F₆·2H₂O

Dcs

Cetine di Cotorniano mine, Chiusdino, Siena, Tuscany, Italy (43°13' N, 11°09' E)

Cristian Biagioni*, Daniela Mauro, Jiří Sejkora, Zdeněk Dolníček, Andrea Dini, and Radek Škoda

* E-mail: cristian.biagioni@unipi.it

New structure type

Monoclinic: *C2/m*; structure determined

$a = 12.474(5)$, $b = 7.198(3)$, $c = 13.724(6) \text{ \AA}$,
 $\beta = 99.52(1)^\circ$

13.7(s), 6.2(w), 5.98(mw), 5.48(m), 4.494(w), 3.581(mw), 2.977(m), 1.797(mw)

Type material is deposited in the collections of the Museo di Storia Naturale, Università di Pisa, Via Roma 79, Calci (PI), Italy, catalogue number 20073

How to cite: Biagioni, C., Mauro, D., Sejkora, J., Dolníček, Z., Dini, A., and Škoda, R.: Dacostaite, IMA 2024-015, in: CNMNC Newsletter 80, Eur. J. Mineral., 36, <https://doi.org/10.5194/ejm-36-599-2024>, 2024.

IMA no. 2024-016

Steiningerite

$\text{Ba}_2\text{Zr}_2(\text{Si}_4\text{O}_{12})\text{O}_2$

Sngr

Löhley basalt quarry, Üdersdorf, near Daun, Eifel, Rhineland-Palatinate, Germany (50°09'33" N, 6°48'41" E)

Rafał Juroszek*, Biljana Krüger, Uwe Kolitsch, Günter Frenz, and Günter Blaß

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

Structurally related with minerals of the of nenadkevichite group

Tetragonal: $P4/mbm$; structure determined

$a = 8.894(2)$, $c = 8.051(2)$ Å

8.051(51), 3.893(37), 3.566(100), 3.144(32), 2.984(71), 2.829(77), 2.812(66), 2.013(25)

Type material is deposited in the collections of the Natural History Museum Mainz, State Collection for Natural History Rhineland-Palatinate, Reichklarastraße 10, 55116 Mainz, Germany, catalogue number NHMMZ M 2024/1-LS

How to cite: Juroszek, R., Krüger, B., Kolitsch, U., Frenz, G., and Blaß, G.: Steiningerite, IMA 2024-016, in: CNMNC Newsletter 80, Eur. J. Mineral., 36, <https://doi.org/10.5194/ejm-36-599-2024>, 2024.

IMA no. 2024-017

Hoperanchite

$(\text{NH}_4)_2(\text{S}_2\text{O}_3)$

Hpr

In a burning bituminous shale along the Pacific coast at Hope Ranch, west of 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

New structure type

Monoclinic: $C2$; structure determined

$a = 10.2313(5)$, $b = 6.4998(3)$, $c = 8.8098(6)$ Å,
 $\beta = 94.611(7)^\circ$

5.112(45), 4.730(100), 4.547(89), 4.345(39), 3.225(34), 3.021(89), 2.627(86), 2.380(25)

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 numbers 76339, 76340, and 76341

How to cite: Kampf, A. R., Adams, P. M., Ma, C., and Lynch, D. K.: Hoperanchite, IMA 2024-017, in: CNMNC Newsletter 80, Eur. J. Mineral., 36, <https://doi.org/10.5194/ejm-36-599-2024>, 2024.

IMA no. 2024-018

Rasmussenite

$\text{Ca}(\text{C}_2\text{H}_3\text{O}_3)_2 \cdot 3\text{H}_2\text{O}$

Rsu

Pusch Ridge, Santa Catalina Mountains, north of Tucson, Pima Co., Arizona, USA (32°21'42" N, 110°57'30" W; 975 m a.s.l.)

Hexiong Yang*, Xiangping Gu, Anthony R. Kampf, Warren Lazar, Ronald B. Gibbs, and Robert T. Downs

* E-mail: hyang@arizona.edu

Glycolate subgroup

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

$a = 9.666(1)$, $b = 9.722(2)$, $c = 5.7628(3)$ Å, $\alpha = 89.96(1)$,
 $\beta = 76.761(9)$, $\gamma = 97.24(1)^\circ$

9.558(100), 9.230(41), 7.228(27), 6.332(28), 4.896(13), 3.606(20), 3.183(21), 3.108(14)

Type material is deposited in the collections of the University of Arizona Alfie Norville Gem & Mineral Museum, 115 N Church Ave Suite 121, Tucson, AZ 85701, USA, catalogue no. 22736 (holotype), and the RRUFF Project, deposition no. R240004 (cotype)

How to cite: Yang, H., Gu, X., Kampf, A. R., Lazar, W., Gibbs, R. B., and Downs, R. T.: Rasmussenite, IMA 2024-018, in: CNMNC Newsletter 80, Eur. J. Mineral., 36, <https://doi.org/10.5194/ejm-36-599-2024>, 2024.

IMA no. 2024-019

Chromviskontite

$\text{Pb}_5\text{Cu}_2(\text{CrO}_4)_3(\text{SeO}_3)(\text{OH})_6$

Cvkt

Western paleo-fumarole field, Mountain 1004, Tolbachik volcano, Kamchatka Peninsula, Far Eastern Federal District, Russia (55°40' N, 160°14' E; 950 m a.s.l.)

Igor V. Pekov*, Sergey N. Britvin, Atali A. Agakhanov, Vasilii O. Yapaskurt, Mikhail V. Strel'nikov, Anna G. Turchkova, and Anastasia N. Kupchenko

* E-mail: igorpekov@mail.ru

The Cr^{6+} -dominant analogue of viskontite

Orthorhombic: $Pmn2_1$; structure determined

$a = 20.597(1)$, $b = 7.3463(3)$, $c = 6.5187(3)$ Å
6.22(59), 4.733(100), 3.262(57), 3.187(75), 3.143(43), 3.118(58), 2.861(35), 2.813(38)

Type material is deposited in the collections of the Fersman Mineralogical Museum, Russian Academy of Sciences, Leninsky Prospekt 18-2, Moscow 119071, Russia, registration number 6122/1

How to cite: Pekov, I. V., Britvin, S. N., Agakhanov, A. A., Yapaskurt, V. O., Strel'nikov, M. V., Turchkova, A. G., and Kupchinenko, A. N.: Chromviskontite, IMA 2024-019, in: CNMNC Newsletter 80, Eur. J. Mineral., 36, <https://doi.org/10.5194/ejm-36-599-2024>, 2024.

3 Nomenclature/classification proposals approved in July 2024

3.1 IMA 24-A: definition of the neotype material for elbaite

(Ferdinando Bosi, Federico Pezzotta, Henrik Skobgy, Alessandra Altieri, Paolo Ballirano, Riccardo Luppi, Ulf Hålenius, Gioacchino Tempesta, Giovanna Agrosi, and Jiří Sejkora)

Proposal 24-A is accepted, and a neotype sample is defined for the mineral elbaite, first described in 1913. The type locality is the Rosina pegmatite, located about 100 m south of the village of San Piero in Campo, Elba island, Italy. Neotype material is deposited in the collections of the Museo Universitario di Scienze della Terra (MUST), Dipartimento di Scienze della Terra, Sapienza Università di Roma, Italy, catalogue number 33383/406.

3.2 Nolanite supergroup

(Nikita V. Chukanov, Vasilisa M. Gridchina, Ramiza K. Rastsvetaeva, Natalia V. Zubkova, and Igor V. Pekov)

The nolanite supergroup is established. In the frame of this, the mineral rinmanite-(Zn) is renamed zincorinmanite-(Zn). The supergroup is divided into the kamiokite group (including the species iseite, kamiokite, and majindeite), the nolanite group (including the species akdalaite, ferrihydrite, and nolanite), and the rinmanite group (including the species rinmanite and zincorinmanite-(Zn)), in accordance with the largest charge of the species-defining cations.

3.3 Kröhnkite supergroup

(Frank C. Hawthorne)

The kröhnkite supergroup is established. It is divided into the brandtite group (including the species brandtite, dobšináite, kröhnkite, roselite, ruffite, wendwilsonite, and zincroselite), the collinsite group (including the species anorthoroselite, cassidyite, collinsite, gaitite, hillite, nickeltalmessite, parabrandtite, and talmessite), and the fairfieldite group (including the species fairfieldite and messelite). Dondoellite is an unassigned member of the supergroup until an isotypic mineral has been approved, whereupon a new group can be proposed.

4 Other issues

4.1 Loparite-(Ce) or loparite?

In the IMA List of Minerals the mineral loparite-(Ce) is still mentioned as such, with the Levinson modifier indicating the dominating REE. However, after the approval of the report on the perovskite supergroup (*Mineralogical Magazine*, 81, 411–461 (2017)), the mineral was renamed loparite, since it was shown that REEs are not a dominant constituent at any site. The end-member formula could be written as $(\text{Na}_{0.5}\text{REE}_{0.5})\text{TiO}_3$, in which REEs are subordinate cations at the A site and appear in the formula for charge balance requirements only. Thanks are owed to Daniel Atencio for noticing this inconsistency.

4.2 Correct chemical formula for launayite

In the IMA List of Minerals the chemical formula of launayite is given as $\text{CuPb}_{10}(\text{Sb,As})_{13}\text{S}_{20}$. This is a typo for $\text{CuPb}_{10}(\text{Sb,As})_{13}\text{S}_{30}$. The latter formula is the correct one for evident stoichiometric reasons and is also given in the IMA-approved report on sulfosalts (*European Journal of Mineralogy*, 20, 7–46 (2008)). Thanks go to Frank de Wit for spotting this.