Eur. J. Mineral., 37, 337–342, 2025
https://doi.org/10.5194/ejm-37-337-2025

European Journal of Mineralogy
Open Access

IMA Commission on New Minerals, Nomenclature and Classification (CNMNC) – Newsletter 85

Ferdinando Bosi[1,*], **Frédéric Hatert**[2,**], **Marco Pasero**[3,**], **and Stuart J. Mills**[4,***]

[1]Dipartimento di Scienze della Terra, Sapienza Università di Roma, Piazzale Aldo Moro 5, 00185 Rome, Italy
[2]Laboratoire de Minéralogie, Université de Liège, Bâtiment B18, Sart Tilman, 4000 Liège, Belgium
[3]Dipartimento di Scienze della Terra, Università di Pisa, Via Santa Maria 53, 56126 Pisa, Italy
[4]Gallery of Natural Art, P.O. Box 830460, Richardson, TX 75083, USA
[*]Chair, CNMNC
[**]Vice-Chair, CNMNC
[***]Secretary, CNMNC

Correspondence: Marco Pasero (marco.pasero@unipi.it)

Published: 6 June 2025

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 April 2025

IMA no. 2024-085

Arzamastsevite
$K_6Al_5Si_6O_{20}(OH)_4Cl$
Azm
Parguaiv Mountain, Lovozero alkaline massif, Kola Peninsula, Russia (67°47′22.4″ N, 34°35′10″ E)
Julia A. Mikhailova*, Yakov A. Pakhomovsky, Ekaterina A. Selivanova, Andrey A. Zolotarev, Sergey M. Aksenov, and Vladimir N. Bocharov
* E-mail: j.mikhailova@ksc.ru
Chemically and structurally related to kalborsite
Tetragonal: $I\bar{4}2m$; structure determined
$a = 9.8280(5)$, $c = 13.134(1)$ Å

6.947(24), 3.478(35), 3.286(26), 3.110(44), 3.075(100), 2.971(84), 2.813(73), 2.732(28),

Type material is deposited in the collections of the Geological and the Mineralogical Museum of the Geological Institute, Kola Science Centre of the Russian Academy of Sciences, 14 Fersman Street, 184209 Apatity, Russia, catalogue number GIM 7986

How to cite: Mikhailova, J. A., Pakhomovsky, Y. A., Selivanova, E. A., Zolotarev, A. A., Aksenov, S. M., and Bocharov, V. N.: Arzamastsevite, IMA 2024-085, in: CNMNC Newsletter 85, Eur. J. Mineral., 37, https://doi.org/10.5194/ejm-37-337-2025, 2025.

IMA no. 2024-094

Chenzhangruite

$MnFe^{2+}Te^{4+}_4O_{10}$

Czr

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

Hexiong Yang*, Guang Fan, Xiangping Gu, Brent Thorne, and Ronald B. Gibbs

* E-mail: hyang@arizona.edu

Denningite group

Tetragonal: $P4_2/nbc$; structure determined

$a = 8.7576(4)$, $c = 12.9575(6)$ Å

6.219(40), 4.377(91), 3.356(100), 3.101(77), 2.774(17), 2.605(36), 2.020(68), 1.517(27)

Type material is deposited in the collections of the University of Arizona Alfie Norville Gem and Mineral Museum, 115 N Church Ave Ste 121, Tucson, AZ 85701, USA, catalogue no. 22739 (holotype), and the RRUFF Project, deposition no. R240011 (cotype)

How to cite: Yang, H., Fan, G., Gu, X., Thorne, B., and Gibbs, R. B.: Chenzhangruite, IMA 2024-094, in: CNMNC Newsletter 85, Eur. J. Mineral., 37, https://doi.org/10.5194/ejm-37-337-2025, 2025.

IMA no. 2024-095

Barkovite

$Ni_{1.5}Sn$

Bark

Mt. Partomchorr, Khibiny alkaline complex, Kola Peninsula, Russia (67°49′46.5″ N, 33°38′56.6″ E)

Oleg S. Vereshchagin*, Sergey N. Britvin, Anatoly V. Kasatkin, Larisa V. Kamaeva, Natalia S. Vlasenko, Olesya A. Sinichenko, Julia A. Mikhailova, and Igor V. Pekov

* E-mail: oleg-vereschagin@yandex.ru

Structurally related to nickeline

Hexagonal: $P6_3/mmc$; structure determined

$a = 4.049(4)$, $c = 5.124(4)$ Å

2.87(61), 2.53(27), 2.05(100), 1.64(12), 1.53(20), 1.44(18), 1.28(15), 1.17(25)

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 6209/1

How to cite: Vereshchagin, O. S., Britvin, S. N., Kasatkin, A. V., Kamaeva, L. V., Vlasenko, N. S., Sinichenko, O. A., Mikhailova, J. A., and Pekov, I. V.: Barkovite, IMA 2024-095, in: CNMNC Newsletter 85, Eur. J. Mineral., 37, https://doi.org/10.5194/ejm-37-337-2025, 2025.

IMA no. 2024-096

Zavyalovite

Ag_2TeS_3

Zvv

Boevskoe deposit, 35 km southwest of the town of Kamensk-Uralskiy, Kaslinskiy District, Chelyabinsk Oblast, Southern Urals, Russia (56°14′44″ N, 61°22′26″ E)

Anatoly V. Kasatkin*, Fabrizio Nestola, Anna Vymazalová, Filip Košek, Atali A. Agakhanov, and Alexey M. Kuznetsov

* E-mail: anatoly.kasatkin@gmail.com

Known synthetic analogue

Monoclinic: Cc

$a = 6.8440(8)$, $b = 11.515(1)$, $c = 7.6529(7)$ Å, $\beta = 114.47(1)°$

3.495(73), 3.242(61), 3.017(57), 2.749(100), 2.163(22), 2.131(64), 1.941(21), 1.778(20)

Type material is deposited in the collections of the Fersman Mineralogical Museum, Russian Academy of Sciences, Leninsky Pr. 18-2, 119071 Moscow, Russia, registration numbers 6214/1 (zavyalovite) and 6214/2 (synthetic Ag_2TeS_3)

How to cite: Kasatkin, A. V., Nestola, F., Vymazalová, A., Košek, F., Agakhanov, A. A., and Kuznetsov, A. M.: Zavyalovite, IMA 2024-096, in: CNMNC Newsletter 85, Eur. J. Mineral., 37, https://doi.org/10.5194/ejm-37-337-2025, 2025.

IMA no. 2024-097

Kenomicrolite

$\square_2Ta_2[O_4(OH)_2]\square$

Kmic

Volta Grande pegmatite, Nazareno, Minas Gerais, Brazil (21°10′08.6″ S, 44°36′01.3″ W)

Alice Taddei, Daniel Atencio, and Luca Bindi*

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

Pyrochlore supergroup

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

$a = 10.5911(6)$ Å

6.1(70), 3.18(40), 3.04(100), 2.637(28), 2.032(16), 1.866(51), 1.784(16), 1.593(40)

Type material is deposited in the collections of the Museo di Storia Naturale, Università di Firenze, Via La Pira 4, 50121 Firenze, Italy, catalogue number MSN-MIN 3747-I

How to cite: Taddei, A., Atencio, D., and Bindi, L.: Kenomicrolite, IMA 2024-097, in: CNMNC Newsletter 85, Eur. J. Mineral., 37, https://doi.org/10.5194/ejm-37-337-2025, 2025.

IMA no. 2024-098

Wenqingite

$Pb_5(AsS_3)_2(Ge_2S_6)$

Wq

Wusihe deposit, Hanyuan County, Sichuan Province, China (102°53′23.0″ E, 29°16′27.0″ N)

Yumiao Meng, Ruizhong Hu, Yiping Yang, Xiaowen Huang, Guanghua Liu, and Xiangping Gu*

* E-mail: guxp2004@163.com

New structure type

Monoclinic: $P2_1/c$; structure determined

$a = 17.856(1)$, $b = 10.8990(5)$, $c = 10.9637(6)$ Å, $\beta = 108.277(6)°$

3.941(75), 3.895(100), 3.367(36), 3.181(36), 2.818(82), 2.544(73), 2.450(91), 1.978(45)

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 M1613x

How to cite: Meng, Y., Hu, R., Yang, Y., Huang, X., Liu, G., and Gu, X.: Wenqingite, IMA 2024-098, in: CNMNC Newsletter 85, Eur. J. Mineral., 37, https://doi.org/10.5194/ejm-37-337-2025, 2025.

2 New mineral proposals approved in May 2025

IMA no. 2022-048a

Wolfsriedite

$Pb[(UO_2)_2(W^{6+}Fe^{3+})O_7(OH)](H_2O)_3$

Wfr

Clara mine, Oberwolfach, Schwarzwald (Black Forest), Baden-Württemberg, Germany (48°22′46″ N, 8°13′44″ E)

Jakub Plášil*, Uwe Kolitsch, Radek Škoda, Gwladys Steciuk, Anthony R. Kampf, Anatoly V. Kasatkin, and Jiří Čejka

* E-mail: plasil@fzu.cz

Chemically and structurally related to uranotungstite

Monoclinic: $P2_1/m$; structure determined

$a = 6.3598(4)$, $b = 7.4753(4)$, $c = 14.080(2)$ Å, $\beta = 98.699(9)°$

13.96(20), 7.00(94), 4.645(28), 3.197(45), 3.025(100), 1.978(35), 1.793(25), 1.578(42)

Cotype material is deposited in the mineralogical collections of the Fersman Mineralogical Museum, Russian Academy of Sciences, Leninsky Pr. 18-2, 119071 Moscow, Russia, registration number 6187/1, and the Natural History Museum of Los Angeles County, 900 Exposition Boulevard, Los Angeles, CA 90007, USA, catalogue number 76190

How to cite: Plášil, J., Kolitsch, U., Škoda, R., Steciuk, G., Kampf, A. R., Kasatkin, A. V., and Čejka, J.: Wolfsriedite, IMA 2022-048a, in: CNMNC Newsletter 85, Eur. J. Mineral., 37, https://doi.org/10.5194/ejm-37-337-2025, 2025.

IMA no. 2025-001

Akasakaite-(Ce)

$CaCe(Al_2Mn^{2+})(Si_2O_7)(SiO_4)O(OH)$

Ak-Ce

Mogurazawa mine, Hishimachi, city of Kiryu, Gunma Prefecture, Japan (36°26′23″ N, 139°22′59″ E)

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

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

Epidote supergroup

Monoclinic: $P2_1/m$; structure determined

$a = 8.8955(4)$, $b = 5.7064(2)$, $c = 10.1175(4)$ Å, $\beta = 113.791(5)°$

7.95(28), 5.10(31), 2.89(100), 2.70(67), 2.62(76), 2.13(45), 1.65(30), 1.43(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-M53012

How to cite: Nagashima, M., Nishio-Hamane, D., Ohnishi, M., and Harada, A.: Akasakaite-(Ce), IMA 2025-001, in: CNMNC Newsletter 85, Eur. J. Mineral., 37, https://doi.org/10.5194/ejm-37-337-2025, 2025.

IMA no. 2025-002

Akasakaite-(La)

$CaLa(Al_2Mn^{2+})(Si_2O_7)(SiO_4)O(OH)$

Ak-La

Mogurazawa mine, Hishimachi, city of Kiryu, Gunma Prefecture, Japan (36°26′23″ N, 139°22′59″ E)

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

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

Epidote supergroup

Monoclinic: $P2_1/m$; structure determined

$a = 8.8848(4)$, $b = 5.6938(2)$, $c = 10.0998(4)$ Å, $\beta = 113.668(5)°$

9.24(24), 7.93(14), 4.96(29), 4.67(11), 3.76(12), 3.52(26), 2.89(100), 2.69(48)

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-M53013

How to cite: Nagashima, M., Nishio-Hamane, D., Ohnishi, M., and Harada, A.: Akasakaite-(La), IMA 2025-002, in: CNMNC Newsletter 85, Eur. J. Mineral., 37, https://doi.org/10.5194/ejm-37-337-2025, 2025.

IMA no. 2025-003

Vanadoakasakaite-(La)

$CaLa(V^{3+}AlMn^{2+})(Si_2O_7)(SiO_4)O(OH)$

Vak-La

Mogurazawa mine, Hishimachi, city of Kiryu, Gunma Prefecture, Japan (36°26′23″ N, 139°22′59″ E)

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

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

Epidote supergroup

Monoclinic: $P2_1/m$; structure determined

$a = 8.9245(2)$, $b = 5.7446(1)$, $c = 10.1528(2)$ Å, $\beta = 113.769(3)°$

3.52(44), 3.30(39), 2.94(100), 2.87(61), 2.72(77), 2.70(42), 2.17(42), 1.66(57)

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-M53014

How to cite: Nagashima, M., Nishio-Hamane, D., Ohnishi, M., and Harada, A.: Vanadoakasakaite-(La), IMA 2025-003, in: CNMNC Newsletter 85, Eur. J. Mineral., 37, https://doi.org/10.5194/ejm-37-337-2025, 2025.

IMA no. 2025-004

Åsgruvanite-(Ce)

$Ce_{16}Ca_5Al(SiO_4)_6(AsO_3)_8(CO_3)_2Cl_4F_3(OH)_2$

Åsg-Ce

Åsgruvan mine, Norberg, Västmanland, Sweden (60°04′50″ N, 15°56′25″ E)

Alice Taddei, Dan Holtstam*, Erik Jonsson, Hans-Jürgen Förster, Luca Bindi, Stefan Andersson, and Oona Appelt

* E-mail: dan.holtstam@nrm.se

New structure type

Trigonal: $P\bar{3}m1$; structure determined

$a = 10.5728(6)$, $c = 15.0899(11)$ Å

7.545(21), 4.381(33), 3.146(37), 2.911(100), 2.851(51), 2.829(37), 2.643(53), 1.761(22)

Type material is deposited in the collections of the Department of Geosciences, Swedish Museum of Natural History, P.O. Box 50007, 10405 Stockholm, Sweden, collection number GEO-NRM 20240017

How to cite: Taddei, A., Holtstam, D., Jonsson, E., Förster, H.-J., Bindi, L., Andersson, S., and Appelt, O.: Åsgruvanite-(Ce), IMA 2025-004, in: CNMNC Newsletter 85, Eur. J. Mineral., 37, https://doi.org/10.5194/ejm-37-337-2025, 2025.

IMA no. 2025-005

Cadvanite

$Cd(VO_3)_2$

Cdv

Burro mine, Slick Rock district, San Miguel Co., Colorado, USA (38°02′42″ N 108°53′23″ W)

Anthony R. Kampf*, Aaron J. Celestian, Chi Ma, Timothy P. Rose, and Joe Marty

* E-mail: akampf@nhm.org

Known synthetic analogue

Monoclinic: $C2/m$; structure determined

$a = 9.831(10)$, $b = 3.6220(9)$, $c = 7.051(5)$ Å, $\beta = 103.97(2)°$

4.449(88), 3.534(84), 3.388(75), 3.166(67), 2.938(100), 2.391(88), 1.812(69), 1.475(40)

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 76456 (holotype) and 76454 and 76457 (cotypes)

How to cite: Kampf, A. R., Celestian, A. J., Ma, C., Rose, T. P., and Marty, J.: Cadvanite, IMA 2025-005, in: CNMNC Newsletter 85, Eur. J. Mineral., 37, https://doi.org/10.5194/ejm-37-337-2025, 2025.

IMA no. 2025-006

Xiexiandeite

SiO_2

Xd

Muonionalusta meteorite, collected on 1 May 2024 in Pajala, Norrbotten County, Sweden (67°48′ N, 23°06.8′ E)

Xiangping Gu, Fabrizio Nestola*, Matteo Ardit, Guanghua Liu, Zuokai Ke, Anatoly Kasatkin, Yanjuan Wang, and Kai Qu

* E-mail: fabrizio.nestola@unipd.it

An ultra-high-pressure (UHP) polymorph of silica

Monoclinic: $P2_1/c$; structure determined

$a = 7.657(3)$, $b = 4.091(2)$, $c = 5.016(3)$ Å, $\beta = 118.21(6)°$

3.145(100), 2.725(64), 1.972(64), 1.949(71), 1.918(79), 1.515(52), 1.504(53), 1.493(55)

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 GMCTM2024014 (holotype), and the Nature and Humankind Museum, University of Padova, Corso Garibaldi 39, 35121 Padua, Italy, catalogue number MMP M23230 (cotype)

How to cite: Gu, X., Nestola, F., Ardit, M., Liu, G., Ke, Z., Kasatkin, A., Wang, Y., and Qu, K.: Xiexiandeite, IMA

2025-006, in: CNMNC Newsletter 85, Eur. J. Mineral., 37, https://doi.org/10.5194/ejm-37-337-2025, 2025.

IMA no. 2025-009

Bariolakargiite
$BaZrO_3$
Blak
Hatrurim Basin, near Mt. Ye'elim, Negev desert, Hatrurim Complex, Israel (31°11′25.5″ N, 35°16′59.0″ E)
Irina Galuskina*, Yevgeny Vapnik, Krystian Prusik, and Evgeny Galuskin
* E-mail: irina.galuskina@us.edu.pl
Perovskite supergroup
Cubic: $Pm\bar{3}m$
$a = 4.11(2)$ Å
2.906(100), 2.373(13), 2.055(34), 1.678(41), 1.453(20), 1.300(18), 1.186(7), 1.098(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 6236/1
How to cite: Galuskina, I., Vapnik, Y., Prusik, K., and Galuskin, E.: Bariolakargiite, IMA 2025-009, in: CNMNC Newsletter 85, Eur. J. Mineral., 37, https://doi.org/10.5194/ejm-37-337-2025, 2025.

IMA no. 2025-010

Brusnitsynite
$Mn_3CuPbAs_3Sb_2S_{12}$
Brus
Vorontsovskoe deposit, approximately 13 km south of the city of Krasnotur'insk, Sverdlovskaya Oblast, Northern Urals, Russia (59°35′05″ N, 60°12′56″ E)
Anatoly V. Kasatkin*, Jakub Plášil, Fyodor D. Sandalov, Fabrizio Nestola, Radek Škoda, Vladislav V. Gurzhiy, Atali A. Agakhanov, and Sergey Y. Stepanov
* E-mail: anatoly.kasatkin@gmail.com
Lillianite–andorite homologous series
Monoclinic: $P2_1/n$; structure determined
$a = 11.597(2)$, $b = 18.905(4)$, $c = 8.732(2)$ Å, $\beta = 98.47(3)°$
6.113(51), 3.264(52), 3.195(88), 2.864(61), 2.837(55), 2.831(100), 2.772(62), 2.745(49)
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 6215/1
How to cite: Kasatkin, A. V., Plášil, J., Sandalov, F. D., Nestola, F., Škoda, R., Gurzhiy, V. V., Agakhanov, A.A., and Stepanov, S. Y.: Brusnitsynite, IMA 2025-010, in: CNMNC Newsletter 85, Eur. J. Mineral., 37, https://doi.org/10.5194/ejm-37-337-2025, 2025.

IMA no. 2025-011

Fuchunite
$Ba(C_2H_3O_3)_2(C_2H_4O_3)_2$
Fun
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
New structure type
Monoclinic: $P2_1/n$; structure determined
$a = 4.8265(1)$, $b = 14.5950(4)$, $c = 10.1908(3)$ Å, $\beta = 91.011(2)°$
8.378(100), 7.296(42), 4.579(29), 4.346(48), 4.182(30), 3.745(30), 3.422(49), 2.798(49)
Type material is deposited in the collections of the University of Arizona Alfie Norville Gem and Mineral Museum, 115 N Church Ave Ste 121, Tucson, AZ 85701, USA, catalogue no. 22742 (holotype), and the RRUFF Project, deposition no. R240007 (cotype)
How to cite: Yang, H., Gu, X., Kampf, A. R., Lazar, W., Gibbs, R. B., and Downs, R. T.: Fuchunite, IMA 2025-011, in: CNMNC Newsletter 85, Eur. J. Mineral., 37, https://doi.org/10.5194/ejm-37-337-2025, 2025.

IMA no. 2025-012

Marioantofilliite
$[Cu_4Al_2(OH)_{12}](CO_3) \cdot 3H_2O$
Maf
Reppia mine, Monte Copello, Graveglia Valley, Ne, Genoa Province, Liguria, Italy (44°23′11.40″ N, 9°27′25.17″ E)
Cristian Biagioni*, Jiří Sejkora, Natale Perchiazzi, Enrico Mugnaioli, Daniela Mauro, Donato Belmonte, Radek Škoda, and Zdeněk Dolníček
* E-mail: cristian.biagioni@unipi.it
Hydrotalcite supergroup
Monoclinic: $C2/m$; structure determined
$a = 5.590(3)$, $b = 2.936(1)$, $c = 7.675(3)$ Å, $\beta = 100.96(2)°$
7.56(100), 3.778(26), 2.750(5), 2.524(8), 2.438(4), 2.233(7), 2.044(4), 1.892(8)
Cotype material is deposited in the collections of the Museo di Storia Naturale, University of Pisa, Via Roma 79, Calci (PI), Italy, catalogue number 20081, and the National Museum, Cirkusová 1740, 193 00 Prague 9, Czech Republic, catalogue number P1P 3/2025
How to cite: Biagioni, C., Sejkora, J., Perchiazzi, N., Mugnaioli, E., Mauro, D., Belmonte, D., Škoda, R., and Dolníček, Z.: Marioantofilliite, IMA 2025-012, in: CNMNC Newsletter 85, Eur. J. Mineral., 37, https://doi.org/10.5194/ejm-37-337-2025, 2025.

IMA no. 2025-014

Huanghoite-(Nd)

$BaNd(CO_3)_2F$

Hho-Nd

Bayan Obo deposit, 130 km north of the city of Baotou, Inner Mongolia, China (41°47′42.7″ N, 109°58′15.7″ E)

Shuiyuan Yang*, Zhengxi Gao, Qing Zhang, Laishi Zhao, Fengqin Bao, Xiangping Gu, Guang Fan, and Qifeng Li

* E-mail: shuiyuanyang@cug.edu.cn

The Nd-dominant analogue of huanghoite-(Ce)

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

$a = 5.0543(2)$, $c = 38.334(1)$ Å

3.990(86), 3.228(100), 2.526(47), 2.134(27), 2.105(32), 1.986(51), 1.631(16), 1.565(13)

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 GMCTM2025004

How to cite: Yang, S., Gao, Z., Zhang, Q., Zhao, L., Bao, F., Gu, X., Fan, G., and Li, Q.: Huanghoite-(Nd), IMA 2025-014, in: CNMNC Newsletter 85, Eur. J. Mineral., 37, https://doi.org/10.5194/ejm-37-337-2025, 2025.

3 Nomenclature/classification proposals approved in May 2025

3.1 Nomenclature scheme for the aeschynite group

(Zeying Zhu, Can Rao, Hong Yu, Zhenyu Chen, Bin Wu, Rucheng Wang, and Denghong Wang)

A nomenclature scheme for the aeschynite group has been approved, and end-member formulae were established for some minerals. The aeschynite group comprises aeschynite-(Ce), redefined as $Ce(TiNb)O_6$; aeschynite-(Nd), redefined as $Nd(TiNb)O_6$; aeschynite-(Y), redefined as $Y(TiNb)O_6$; rynersonite, $CaTa_2O_6$; tantalaeschynite-(Ce), $Ce(TiTa)O_6$; tantalaeschynite-(Y), redefined as $Y(TiTa)O_6$; and vigezzite, redefined as $CaNb_2O_6$.

Nioboaeschynite-(Ce) and nioboaeschynite-(Y) have been found to be equivalent to asechynite-(Ce) and aeschynite-(Y), respectively. Therefore, both nioboaeschynite-(Ce) and nioboaeschynite-(Y) have been discredited.

3.2 Nomenclature scheme for the monazite supergroup

(Pavel Uher, Frédéric Hatert, Martin Ondrejka, Peter Bačík, Jiří Sejkora, Radek Škoda, and Martin Števko)

The monazite supergroup has been established. Phosphates (monazite-(Ce), monazite-(La), monazite-(Nd), monazite-(Sm), monazite-(Gd), and cheralite) and arsenates (gasparite-(Ce), gasparite-(La), and rooseveltite) belong to the monazite group, whilst silicates (huttonite) and chromates (crocoite) are individual members of the supergroup.