



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

Newsletter 74

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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.

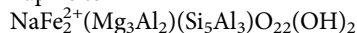
It is still a requirement for the authors to publish a full description of the new mineral.

NO OTHER INFORMATION WILL BE RELEASED BY THE COMMISSION

NEW MINERAL PROPOSALS APPROVED IN JUNE 2023

IMA No. 2022-145

Papikeite



Ppk

In the southeastern shore of the island of Ærøya, Norway, (58° 24'56" N, 8°46'03" E)

Jan B. Kihle, Maxwell C. Day and Frank C. Hawthorne

*E-mail: frank.hawthorne@umanitoba.ca

Amphibole supergroup

Orthorhombic: *Pnma*; structure determined

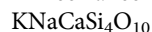
$a = 18.6322(6)$, $b = 17.8492(6)$, $c = 5.2811(2)$ Å
3.223(70), 3.059(100), 2.819(55), 2.670(54), 2.565(95), 2.542(93), 2.498(61), 1.511(68)

Type material is deposited in the collections of the Royal Ontario Museum, 100 Queens Park, Toronto, ON M5S 2C6, Canada, accession number M60376

How to cite: Kihle, J.B., Day, M.C. and Hawthorne, F.C. (2023) Papikeite, IMA 2022-145. CNMNC Newsletter 74; *Mineralogical Magazine*, 87, <https://doi.org/10.1180/mgm.2023.54>

IMA No. 2023-002

Enricofrancoite



Enf

In crusts covering metamorphosed lapilli related to the 1872 eruption, Somma-Vesuvius volcano, Naples, Italy (40°49'17.0" N, 14°25'34.6" E)

Giuseppina Balassone, Taras L. Panikorovskii*, Annamaria Pellino, Ayya V. Bazai, Vladimir N. Bocharov, Olga F. Goychuk, Evgenia Y. Avdontseva, Victor N. Yakovenchuk,

Corresponding author: Marco Pasero; Email: marco.pasero@unipi.it

Cite this article: Bosi F., Hatert F., Pasero M. and Mills S.J. (2023) Newsletter 74. *Mineralogical Magazine* 87, 783–787. <https://doi.org/10.1180/mgm.2023.54>

Sergey V. Krivovichev, Carmela Petti, Piergiulio Cappelletti, Nicola Mondillo, Anna Moliterni and Angela Altomare

*E-mail: t.panikorovskii@ksc.ru

Litidionite group

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

$a = 7.0155(4)$, $b = 8.0721(4)$, $c = 10.0275(4)$ Å, $\alpha = 104.420(4)$, $\beta = 99.764(4)$, $\gamma = 115.126(5)^\circ$
6.75(35), 4.05(15), 3.65(18), 3.37(100), 3.22(75), 2.976(13), 2.835(18), 2.409(85)

Type material is deposited in the collections of the Royal Mineralogical Museum, University of Naples "Federico II", Via Mezzocannone 8, 80134 Napoli, Italy, catalogue number 17926/E6457

How to cite: Balassone, P., Panikorovskii, T.L., Pellino, A., Bazai, A.V., Bocharov, V.N., Goychuk, O.F., Avdontseva, E.Y., Yakovenchuk, V.N., Krivovichev, S.V., Petti, C., Cappelletti, P., Mondillo, N., Moliterni, A. and Altomare, A. (2023) Enricofrancoite, IMA 2023-002. CNMNC Newsletter 74; *Mineralogical Magazine*, **87**, <https://doi.org/10.1180/mgm.2023.54>

IMA No. 2023-015

Magnesio-dutrowite

$\text{Na}(\text{Mg}_{2.5}\text{Ti}_{0.5})\text{Al}_6(\text{Si}_6\text{O}_{18})(\text{BO}_3)_3(\text{OH})_3\text{O}$

Mdtw

Rędziny, near Kamienna Góra, Karkonosze granite massif, northeastern part of the Bohemian Massif, Western Sudetes, Poland (50°49'06" N, 15°55'28" E)

Adam Pieczka*, Mateusz P. Sęk, Marcin Stachowicz, Adam Włodek, Bożena Gołębiowska, Jarosław Majka and Krzysztof Woźniak

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

Tourmaline supergroup

Trigonal: $R3m$; structure determined

$a = 15.9682(4)$, $c = 7.2081(2)$ Å
6.39(41), 4.231(56), 3.992(69), 3.488(51), 2.967(65), 2.582(100), 2.045(40), 1.923(25)

Type material is deposited in the collections of the Mineralogical Museum, Institute of Geological Sciences, University of Wrocław, Cybulskiego 30, 50-205 Wrocław, Poland, catalogue number MMUWr IV8121

How to cite: Pieczka, A., Sęk, M.P., Stachowicz, M., Włodek, A., Gołębiowska, B., Majka, J. and Woźniak, K. (2023) Magnesio-dutrowite, IMA 2023-015. CNMNC Newsletter 74; *Mineralogical Magazine*, **87**, <https://doi.org/10.1180/mgm.2023.54>

IMA No. 2023-017

Mckelveyite-(Nd)

$\text{NaCaBa}_3\text{Nd}(\text{CO}_3)_6 \cdot 3\text{H}_2\text{O}$

Mkv-Nd

Kirovsky Mine (level +252 m), Kukisvumchorr Mount, Khibiny Massif, Murmansk Oblast, Russia (67°40' N, 33°43' E)

Inna Lykova*, Ralph Rowe, Glenn Poirier and Stephanie Barnes

*E-mail: ilykova@nature.ca

Mckelveyite group

Monoclinic: Cc ; structure determined

$a = 15.877(1)$, $b = 9.1792(7)$, $c = 13.8292(8)$ Å, $\beta = 112.251(5)^\circ$
6.39(36), 4.584(37), 4.314(100), 3.124(84), 2.647(48), 2.623(26), 2.040(22), 2.019(29)

Type material is deposited in the collections of the Canadian Museum of Nature, PO Box 3443, Station "D", Ottawa, Canada, catalogue number CMNMC 90535

How to cite: Lykova, I., Rowe, R., Poirier, G. and Barnes, S. (2023) Mckelveyite-(Nd), IMA 2023-017. CNMNC Newsletter 74; *Mineralogical Magazine*, **87**, <https://doi.org/10.1180/mgm.2023.54>

IMA No. 2023-018

Bainbridgeite-(NdCe)

$\text{Na}_2\text{Ba}_2\text{NdCe}(\text{CO}_3)_6 \cdot 3\text{H}_2\text{O}$

Bbg-NdCe

Poudrette (Demix) quarry, Mont Saint-Hilaire, Quebec, Canada (45°33'46" N, 73°08'30" W)

Inna Lykova*, Ralph Rowe, Glenn Poirier, Henrik Friis, Kelsie Ojaste and Stephanie Barnes

*E-mail: ilykova@nature.ca

Mckelveyite group

Triclinic: $P1$; structure determined

$a = 9.0525(3)$, $b = 9.1178(2)$, $c = 6.8518(2)$ Å, $\alpha = 102.575(3)$, $\beta = 116.272(4)$, $\gamma = 59.788(4)^\circ$
6.17(50), 4.407(100), 4.077(30), 3.241(32), 2.870(88), 2.621(39), 2.253(22), 1.998(25)

Type material is deposited in the collections of the Canadian Museum of Nature, PO Box 3443, Station "D", Ottawa, Canada, catalogue number CMNMC 90534

How to cite: Lykova, I., Rowe, R., Poirier, G., Friis, H., Ojaste, K. and Barnes, S. (2023) Bainbridgeite-(NdCe), IMA 2023-018. CNMNC Newsletter 74; *Mineralogical Magazine*, **87**, <https://doi.org/10.1180/mgm.2023.54>

IMA No. 2023-019

Ferrodimoilybdenite

FeMo_2S_4

Fdmol

Daba-Siwaqa complex, Transjordan Plateau, Jordan (31°22'01" N, 36°11'10" E)

Evgeny V. Galuskin*, Irina O. Galuskina, Joachim Kusz, Maria Książek, Yevgeny Vapnik and Grzegorz Zieliński

*E-mail: evgeny.galuskin@us.edu.pl

Known synthetic analogue

Monoclinic: $C2/c$; structure determined

$a = 11.8249(8)$, $b = 6.5534(3)$, $c = 13.005(1)$ Å, $\beta = 114.474(9)^\circ$
5.918(100), 5.194(42), 2.865(47), 2.601(65), 2.597(33), 2.081(54), 2.046(25), 2.037(57)

Type material is deposited in the collections of the Fersman Mineralogical Museum, Russian Academy of Sciences, Leninskiy Prospekt 18-2, Moscow 115162, Russia, registration number 6005/1

How to cite: Galuskin, E.V., Galuskina, I.O., Kusz, J., Książek, M., Vapnik, Y. and Zieliński, G. (2023) Ferrodimoilybdenite, IMA 2023-019. CNMNC Newsletter 74; *Mineralogical Magazine*, **87**, <https://doi.org/10.1180/mgm.2023.54>

IMA No. 2023-021

Masaitisite

$\text{KCu}_5\text{O}_2(\text{SeO}_3)_2\text{Cl}_3$

Msts

Yadovitaya (Poisonous) fumarole, Second scoria cone of the Northern Breakthrough of the Great Tolbachik Fissure Eruption, Tolbachik volcano, Kamchatka peninsula, Far-Eastern Region, Russia (55°41' N, 160°14' E, 1200 m a.s.l.)

Igor V. Pekov*, Mikhail N. Murashko, Atali A. Agakhanov, Marina F. Vigasina, Sergey N. Britvin and Anna G. Turchkova
*E-mail: igorpekov@mail.ru

The K analogue of ilinskite

Orthorhombic: *Pnma*

$a = 18.154(5)$, $b = 6.451(2)$, $c = 10.567(3)$ Å

9.03(100), 5.50(55), 5.27(88), 3.276(52), 3.227(71), 2.633(63), 2.526(46), 2.347(43)

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 6006/1

How to cite: Pekov, I.V., Murashko, M.N., Agakhanov, A.A., Vigasina, M.F., Britvin, S.N. and Turchkova, A.G. (2023) Masaitisite, IMA 2023-021. CNMNC Newsletter 74; *Mineralogical Magazine*, **87**, <https://doi.org/10.1180/mgm.2023.54>

IMA No. 2023-022

Ferriandrosite-(Ce)

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

Fea-Ce

Július manganese ore occurrence, north-eastern slopes of the Turecká hill, 4 km WSW of the Betliar village, Rožňava Co., Košice Region, Slovakia (48°41'53.3" N, 20°29'20.1" E, 953 m a.s.l.)

Martin Števkó*, Pavol Myšlan, Cristian Biagioni, Daniela Mauro and Tomáš Mikuš

*E-mail: mminerals@gmail.com

Epidote supergroup

Monoclinic: *P2₁/m*; structure determined

$a = 8.8483(4)$, $b = 5.7307(3)$, $c = 10.0314(5)$ Å, $\beta = 113.366(1)^\circ$
7.8(m), 3.511(ms), 2.895(vs), 2.704(m), 2.615(s), 2.177(m), 2.112(mw), 1.657(mw)

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 2/2023, and the Museo di Storia Naturale, Università di Pisa, Via Roma 79, Calci (PI), Italy, catalogue number 20063
How to cite: Števkó, M., Myšlan, P., Biagioni, C., Mauro, D. and Mikuš, T. (2023) Ferriandrosite-(Ce), IMA 2023-022. CNMNC Newsletter 74; *Mineralogical Magazine*, **87**, <https://doi.org/10.1180/mgm.2023.54>

IMA No. 2023-023

Wiperamingaite

$\text{NaCaFe}^{3+}\text{Al}(\text{PO}_4)\text{F}_5(\text{OH})\cdot\text{H}_2\text{O}$

Wip

Wiperaminga Hill West Quarry, Boolcoomatta Reserve, Olary Province, South Australia, Australia (31°57'42" S, 140°27'34" E)
Peter Elliott* and Anthony R. Kampf

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

New structure type

Orthorhombic: *P2₁2₁2₁*; structure determined

$a = 5.354(1)$, $b = 5.591(1)$, $c = 26.279(5)$ Å
4.29(28), 3.868(100), 2.825(32), 2.682(20), 2.397(19), 2.199(29), 1.933(52), 1.702(23)

Type material is deposited in the collections of the South Australian Museum, North Terrace, Adelaide, South Australia 5000, Australia, registration number G35314

How to cite: Elliott, P. and Kampf, A.R. (2023) Wiperamingaite, IMA 2023-023. CNMNC Newsletter 74;

Mineralogical Magazine, **87**, <https://doi.org/10.1180/mgm.2023.54>

IMA No. 2023-024

Alfredcasparite

$\text{Sr}_2\text{TiO}(\text{Si}_2\text{O}_7)$

Afc

Caspar quarry, Bellerberg volcano, Eifel, Germany (50°35'14" N, 7°23'54" E)

Rafał Juroszek*, Krystian Prusik and Christof Schäfer

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

The Sr analogue of fresnoite

Tetragonal: *P4bm*

$a = 8.3200(3)$, $c = 5.0239(2)$ Å

3.204(40), 2.990(100), 2.631(29), 2.512(18), 2.082(16), 2.018(15), 1.872(15), 1.817(16)

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 2023/1-LS

How to cite: Juroszek, R., Prusik, K. and Schäfer, C. (2023) Alfredcasparite, IMA 2023-024. CNMNC Newsletter 74; *Mineralogical Magazine*, **87**, <https://doi.org/10.1180/mgm.2023.54>

IMA No. 2023-025

Paramolybdomenite

PbSeO_3

Pmdm

Western paleo-fumarole field, Mountain 1004, Tolbachik volcano, Kamchatka peninsula, Far-Eastern Region, Russia
Igor V. Pekov*, Sergey N. Britvin, Atali A. Agakhanov, Marina F. Vigasina, Anna G. Turchkova and Pavel S. Zhegunov

*E-mail: igorpekov@mail.ru

A dimorph of molybdomenite

Monoclinic: *P2₁/c*; structure determined

$a = 8.997(1)$, $b = 8.159(1)$, $c = 9.032(1)$ Å, $\beta = 103.33(1)^\circ$
3.823(17), 3.534(34), 3.293(100), 3.244(63), 2.997(35), 2.981(36), 2.788(49), 2.760(26)

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 6007/1

How to cite: Pekov, I.V., Britvin, S.N., Agakhanov, A.A., Vigasina, M.F., Turchkova, A.G. and Zhegunov, P.S. (2023) Paramolybdomenite, IMA 2023-025. CNMNC Newsletter 74; *Mineralogical Magazine*, **87**, <https://doi.org/10.1180/mgm.2023.54>

NEW MINERAL PROPOSALS APPROVED IN JULY 2023

IMA No. 2022-136

Magnesiumingheite

$\text{Na}_2\text{Mg}(\text{MgAl})(\text{PO}_4)_3$

Mqin

Western ridge of the Stockhorn, Zermatt valley, Valais, Switzerland (3400 m a.s.l.)

Fernando Cámara, Christian Chopin* and Damien Deldicque

*E-mail: chopin@geologie.ens.fr

Alluaudite supergroup

Monoclinic: *P2₁/n*; structure determined

$a = 11.7248(3)$, $b = 12.3146(2)$, $c = 6.3886(1)$ Å, $\beta = 114.226(3)^\circ$

2.989(41), 2.844(35), 2.677(100), 2.518(43), 2.485(49), 2.185(59), 1.728(52), 1.581(35)

Type material is deposited in the collections of the Musée de Minéralogie, Ecole des Mines de Paris, 60 boulevard Saint-Michel, 75006 Paris, France, catalogue number ENSMP 84268 (holotype), and the Museum National d'Histoire Naturelle, 61 rue Buffon, Paris, France, catalogue number MNHN_MIN_223.002 (cotype)

How to cite: Cámara, F., Chopin, C. and Deldicque, D. (2023) Magnesioqingheite, IMA 2022-136. CNMNC Newsletter 74; *Mineralogical Magazine*, **87**, <https://doi.org/10.1180/mgm.2023.54>

IMA No. 2023-026

Shinichengite

$\text{Ca}_5[\text{BSi}_2\text{O}_7(\text{OH})_2]_2 \cdot 6\text{H}_2\text{O}$

Shnc

Shijiangshan mine, at the boundary between Hexigten Banner and Linxi County, Chifeng City, Inner Mongolia, China (43° 43'15" N, 117°50'32" E)

Ningyue Sun, Yuan Xue, Jinhua Hao, Guowu Li*, Hongtao Shen, Chang Li, Aiqing Chen, Natalia V. Zubkova and Igor V. Pekov

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

Chemically related to oyelite

Triclinic: $P1$; structure determined

$a = 7.2341(2)$, $b = 11.2289(3)$, $c = 12.3471(4)$ Å, $\alpha = 87.229(2)$, $\beta = 81.587(2)$, $\gamma = 89.986(2)^\circ$
12.26(100), 5.21(5), 4.073(7), 3.375(5), 3.024(13), 2.739(6), 2.630(6), 2.444(7)

Type material is deposited in the collections of the Geological Museum of China, Xisi, Yangrou Hutong No. 15, Xicheng District, Beijing, People's Republic of China, catalogue number GMCTM2023001 (holotype), and the Crystal Structure Laboratory, China University of Geosciences, Beijing 100083, People's Republic of China, catalogue number SJS-2 (cotype)

How to cite: Sun, N., Xue, Y., Hao, J., Li, G., Shen, H., Li, C., Chen, A., Zubkova, N.V. and Pekov, I.V. (2023) Shinichengite, IMA 2023-026. CNMNC Newsletter 74; *Mineralogical Magazine*, **87**, <https://doi.org/10.1180/mgm.2023.54>

IMA No. 2023-027

Naalasilite

$\text{NaAl}(\text{AsO}_3\text{OH})_2 \cdot \text{H}_2\text{O}$

Naa

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

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

*E-mail: akampf@nhm.org

The Al analogue of nafaesite

Trigonal: $R32$; structure determined

$a = 8.4796(6)$, $c = 26.399(3)$ Å
9.04(20), 7.23(89), 4.33(30), 3.127(100), 3.085(33), 2.809(15), 2.518(15), 1.417(16)

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 76282

How to cite: Kampf, A.R., Möhn, G., Ma, C. and Désor, J. (2023) Naalasilite, IMA 2023-027. CNMNC Newsletter 74;

Mineralogical Magazine, **87**, <https://doi.org/10.1180/mgm.2023.54>

IMA No. 2023-028

Regerite

$\text{KFe}_6(\text{PO}_4)_4(\text{OH})_7(\text{H}_2\text{O})_6 \cdot 4\text{H}_2\text{O}$

Reg

Kreuzberg pegmatite, Pleystein, Oberpfalz, northeast Bavaria, Germany (49°38'47" N, 12°24'42" E)

Christian Rewitzer, Rupert Hochleitner, Ian E. Grey*, Anthony R. Kampf, Stephanie Boer and Colin M. MacRae

*E-mail: ian.grey@csiro.au

New structure type

Monoclinic: $P2_1/c$; structure determined

$a = 15.353(3)$, $b = 17.351(4)$, $c = 9.887(2)$ Å, $\beta = 95.26(3)^\circ$
11.52(63), 7.69(100), 5.85(20), 3.877(33), 3.797(28), 2.934(22), 2.543(21), 1.530(19)

Type material is deposited in the collections of the Mineralogical State Collection Munich (SNSB), Theresienstrasse 41, 80333 Munich, Germany, registration number MSM 38039

How to cite: Rewitzer, C., Hochleitner, R., Grey, I.E., Kampf, A.R., Boer, S. and MacRae, C.M. (2023) Regerite, IMA 2023-028. CNMNC Newsletter 74; *Mineralogical Magazine*, **87**, <https://doi.org/10.1180/mgm.2023.54>

IMA No. 2023-029

Viskontite

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

Vkt

Western paleo-fumarole field, Mountain 1004, Tolbachik volcano, Kamchatka peninsula, Far-Eastern Region, Russia

Igor V. Pekov*, Sergey N. Britvin, Atali A. Agakhanov, Anna G. Turchkova and Pavel S. Zhegunov

*E-mail: igorpekov@mail.ru

The selenite analogue of caledonite

Orthorhombic: $Pmn2_1$; structure determined

$a = 20.6265(4)$, $b = 7.2040(1)$, $c = 6.5220(1)$ Å
6.22(56), 4.73(100), 3.261(62), 3.155(89), 3.109(83), 2.857(31), 2.806(48), 2.074(29)

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 6008/1

How to cite: Pekov, I.V., Britvin, S.N., Agakhanov, A.A., Turchkova, A.G. and Zhegunov, P.S. (2023) Viskontite, IMA 2023-029. CNMNC Newsletter 74; *Mineralogical Magazine*, **87**, <https://doi.org/10.1180/mgm.2023.54>

IMA No. 2023-030

Wanguirenite

$\text{Pb}_3\text{Cl}_2(\text{SeO}_3)_2$

Wgk

Baccu Locci mine, near Villaputzu, Sardinia, Italy (39°32'38" N, 9°32'04" E)

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

*E-mail: hyang@arizona.edu

Known synthetic analogue

Monoclinic: $C2/c$; structure determined

$a = 13.4266(4)$, $b = 5.5826(2)$, $c = 13.0024(4)$ Å, $\beta = 94.287(2)^\circ$

6.478(37), 3.974(57), 3.484(50), 3.146(100), 2.889(28), 2.791(45), 2.706(61), 2.008(43)

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. 22731 (holotype), and the RRUFF Project, deposition no. R220047 (cotype)

How to cite: Yang, H., Gu, X., Gibbs, R.B. and Downs, R.T. (2023) Wangkuirenite, IMA 2023-030. CNMNC Newsletter 74; *Mineralogical Magazine*, **87**, <https://doi.org/10.1180/mgm.2023.54>

IMA No. 2023-031

Paulišite

$\text{Ca}_2\text{Zn}(\text{CO}_3)_3 \cdot 2\text{H}_2\text{O}$

Plš

Staročeské Lode (1st level), adit Ch151, ca. 20 m north of the historical shaft Šafary, Kaňk, near Kutná Hora, central Bohemia, Czech Republic (49°58'43.23" N, 15°16'06.62" E)

Jiří Sejkora*, Cristian Biagioni, Zdeněk Dolníček, Radek Škoda and Jana Ederová

*E-mail: jiri.sejkora@nm.cz

New structure type

Monoclinic: Cc; structure determined

$a = 14.3484(1)$, $b = 10.624(1)$, $c = 6.3007(6)$ Å, $\beta = 115.205(4)^\circ$
8.226(100), 6.492(99), 4.112(18), 3.246(35), 3.085(19), 2.935(15), 2.797(14), 2.458(20)

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 9/2023, and the Museo di Storia Naturale, Università di Pisa, Via Roma 79, Calci (PI), catalogue number 20064

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NOMENCLATURE/CLASSIFICATION PROPOSALS APPROVED IN JUNE 2023

IMA 22-K-bis – Establishment of the paulkerrite group

(Ian E. Grey, Ferdinando Bosi, William G. Mumme and Stephanie Boer)

Proposal 22-K-bis is accepted, and the paulkerrite group is defined. The general formula may be written as $A_2M_1M_2M_3(\text{PO}_4)_4X_2(\text{H}_2\text{O})_{10} \cdot 4\text{H}_2\text{O}$, where $A = \text{K}, \text{H}_2\text{O}$; $M = \text{Mg}, \text{Mn}^{2+}, \text{Al}, \text{Fe}^{3+}, \text{Ti}$; $X = \text{O}, \text{OH}, \text{F}$. The following species belong to the group: paulkerrite, mantienneite, benyacarite, pleysteinite and hochleitnerite.

NOMENCLATURE/CLASSIFICATION PROPOSALS APPROVED IN JULY 2023

Establishment of the dongchuanite group

(Guowu Li, Ningyue Sun and Yuan Xue)

The dongchuanite group has been established. The general formula may be written as $A_4{}^{\text{VI}}B{}^{\text{IV}}B_2(\text{T1O}_4)_2(\text{T2O}_4)_2Y_2$. Currently there are the following species: dongchuanite (${}^{\text{VI}}B = \text{Zn}, \text{T1} = \text{P}$), cuprodongchuanite (${}^{\text{VI}}B = \text{Cu}, \text{T1} = \text{P}$), zheshengite (${}^{\text{VI}}B = \text{Zn}, \text{T1} = \text{As}$), and cuprozheshengite (${}^{\text{VI}}B = \text{Cu}, \text{T1} = \text{As}$). In all of them it is invariably $A = \text{Pb}, {}^{\text{IV}}B = \text{Zn}, \text{T2} = \text{P}, Y = (\text{OH})$.