



IMA Commission on New Minerals, Nomenclature and Classification (CNMNC) – Newsletter 61

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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;
- 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 2021

IMA no. 2020-097

Liguowuite

WO₃

Nanyang Village, Huaping County, Yunnan Province, Panzhihua-Xichang region, China (26°46'18.21" N, 101°27'13.86" E)

Yuan Xue*, Ningyue Sun, Hongping He, Aiqing Chen, and Yiping Yang

*E-mail: xue.yuea@163.com

Known synthetic analogue

Monoclinic: $P2_1/n$; structure determined

$a = 7.3258(2)$, $b = 7.5477(2)$, $c = 7.7113(2)$ Å,
 $\beta = 90.678(3)^\circ$

3.855(88), 3.768(88), 3.659(100), 3.104(20), 2.693(43),
2.626(60), 1.827(32), 1.645(27)

Type material is deposited in the mineralogical collections of the Geological Museum of China, Xisi, Yangrou Hutong No. 15, Beijing 100083, People's Republic of China, catalogue number M16121 (holotype), and the Crystal Structure Laboratory, China University of Geosciences, Beijing 100083,

People's Republic of China, catalogue number NY-5-3Z (co-type)

How to cite: Xue, Y., Sun, N., He, H., Chen, A., and Yang, Y.: Liguowuite, IMA 2020-097, in: CNMNC Newsletter 61, Eur. J. Mineral., 33, <https://doi.org/10.5194/ejm-33-299-2021>, 2021.

IMA no. 2020-098

Tamuraite

$\text{Ir}_5\text{Fe}_{10}\text{S}_{16}$

Sisim Placer Zone, river Sisim basin, southern portion of Krasnoyarskiy Kray, central Siberia, not far from Krasnoyarsk, southwestern Eastern Sayans, Russia

Andrei Y. Barkov*, Nadezhda D. Tolstykh, and Robert F. Martin

*E-mail: ore-minerals@mail.ru

The Fe-dominant analogue of kuvaevite

Trigonal: $R\bar{3}m$

$a = 7.073(1)$, $c = 34.277(8)$ Å

5.774(45), 3.053(43), 3.011(100), 2.996(50), 2.799(55), 2.495(38), 1.770(71), 1.758(65)

Type material is deposited in the mineralogical collections of the Central Siberian Geological Museum, Sobolev Institute of Geology and Mineralogy, Akademik Koptyug Avenue no. 3, 630090 Novosibirsk, Russia, catalogue number III-102/2

How to cite: Barkov, A. Y., Tolstykh, N. D., and Martin, R. F.: Tamuraite, IMA 2020-098, in: CNMNC Newsletter 61, Eur. J. Mineral., 33, <https://doi.org/10.5194/ejm-33-299-2021>, 2021.

IMA no. 2020-099

Garpenbergite

$\text{Mn}_6\text{AsSbO}_{10}(\text{OH})_2$

Garpenberg, Hedemora, Dalarna County, Sweden

Dan Holtstam*, Luca Bindi, Hans-Jürgen Förster, Andreas Karlsson, and Kjell Gatedal

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

The Mn-deficient analogue of manganostibite

Orthorhombic: $Ibmm$; structure determined

$a = 8.6790(9)$, $b = 18.906(2)$, $c = 6.1066(6)$ Å

5.00(25), 4.42(30), 3.48(20), 3.050(30), 2.665(100), 2.616(40), 2.586(25), 1.545(45)

Type material is deposited in the mineralogical collections of the Department of Geosciences, Swedish Museum of Natural History, Box 50007, 10405 Stockholm, Sweden, collection number GEO-NRM #20010351 and #20200040

How to cite: Holtstam, D., Bindi, L., Förster, H.-J., Karlsson, A., and Gatedal, K.: Garpenbergite, IMA 2020-099, in: CNMNC Newsletter 61, Eur. J. Mineral., 33, <https://doi.org/10.5194/ejm-33-299-2021>, 2021.

IMA no. 2020-100

Paratobermorite

$\text{Ca}_4(\text{Al}_{0.5}\text{Si}_{0.5})_2\text{Si}_4\text{O}_{16}(\text{OH})(\text{H}_2\text{O})_2 \cdot (\text{Ca} \cdot 3\text{H}_2\text{O})$

Southern open pit, Bazhenovskoe deposit, Asbest, Sverdlovsk Oblast, Central Urals, Russia

Igor V. Pekov*, Natalia V. Zubkova, Nikita V. Chukanov, Stefano Merlino, Vasilij O. Yapaskurt, Dmitry I. Belakovskiy, Alexander B. Loskutov, Elena A. Novgorodova, Svetlana A. Vozchikova, Sergey N. Britvin, and Dmitry Y. Pushcharovsky

*E-mail: igorpekov@mail.ru

Tobermorite supergroup

Monoclinic: $C112_1/m$; structure determined

$a = 11.2220(4)$, $b = 7.3777(2)$, $c = 22.9425(8)$ Å, $\gamma = 89.990(3)^\circ$

11.52(100), 5.46(24), 3.562(17), 3.088(51), 2.982(50), 2.838(20), 2.013(14), 1.848(22)

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 5643/1

How to cite: Pekov, I. V., Zubkova, N. V., Chukanov, N. V., Merlino, S., Yapaskurt, V. O., Belakovskiy, D. I., Loskutov, A. B., Novgorodova, E. A., Vozchikova, S. A., Britvin, S. N., and Pushcharovsky, D. Y.: Paratobermorite, IMA 2020-100, in: CNMNC Newsletter 61, Eur. J. Mineral., 33, <https://doi.org/10.5194/ejm-33-299-2021>, 2021.

IMA no. 2020-102

Relianceite-(K)

$\text{K}_4\text{Mg}(\text{V}^{4+}\text{O})_2(\text{C}_2\text{O}_4)(\text{PO}_3\text{OH})_4(\text{H}_2\text{O})_{10}$

125-foot (38.1 m) level of the Rowley mine, ca. 20 km northwest of Theba, Maricopa Co., Arizona, USA (33°02'57" N, 113°01'59" W)

Anthony R. Kampf*, Mark A. Cooper, Aaron J. Celestian, Chi Ma, and Joe Marty

*E-mail: akampf@nhm.org

New structure type

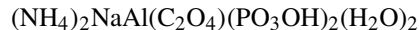
Monoclinic: Pc ; structure determined

$a = 12.404(7)$, $b = 9.014(6)$, $c = 13.260(8)$ Å, $\beta = 100.80(1)^\circ$

12.22(100), 6.56(21), 6.28(20), 3.435(19), 3.125(23), 3.039(19), 2.893(22), 2.718(21)

Type material is deposited in the mineralogical collections of the Natural History Museum of Los Angeles County, 900 Exposition Boulevard, Los Angeles, CA 90007, USA, catalogue number 75275

How to cite: Kampf, A. R., Cooper, M. A., Celestian, A. J., Ma, C., and Marty, J.: Relianceite-(K), IMA 2020-102, in: CNMNC Newsletter 61, Eur. J. Mineral., 33, <https://doi.org/10.5194/ejm-33-299-2021>, 2021.

IMA no. 2020-103Dendorait-(NH₄)

125-foot (38.1 m) level of the Rowley mine, ca. 20 km northwest of Theba, Maricopa Co., Arizona, USA (33°02'57" N, 113°01'59" W)

Anthony R. Kampf*, Mark A. Cooper, Aaron J. Celestian, Chi Ma, and Joe Marty

*E-mail: akampf@nhm.org

New structure type

Monoclinic: $P2_1/n$; structure determined

$a = 10.695(6)$, $b = 6.285(4)$, $c = 19.227(12)$ Å,
 $\beta = 90.93(1)^\circ$

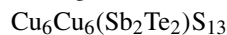
9.65(100), 9.29(54), 5.99(24), 4.738(28), 3.455(40),
3.106(75), 2.975(28), 2.828(33)

Type material is deposited in the mineralogical collections of the Natural History Museum of Los Angeles County, 900 Exposition Boulevard, Los Angeles, CA 90007, USA, catalogue number 75275

How to cite: Kampf, A. R., Cooper, M. A., Celestian, A. J., Ma, C., and Marty, J.: Dendorait-(NH₄), IMA 2020-103, in: CNMNC Newsletter 61, Eur. J. Mineral., 33, <https://doi.org/10.5194/ejm-33-299-2021>, 2021.

IMA no. 2020-104

Stibiogoldfieldite



Mohawk mine, Goldfield mining district, Esmeralda Co., Nevada, USA (37°43'01" N, 117°13'25" W)

Cristian Biagioni*, Jiri Sejkora, Silvia Musetti, Emil Makovicky, Renato Pagano, Marco Pasero, and Zdeněk Dolníček

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

Tetrahedrite group

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

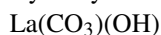
$a = 10.347(2)$ Å
3.644(19), 2.974(100), 2.754(8), 2.576(19), 2.429(7),
2.020(10), 1.821(32), 1.553(13)

Type material is deposited in the mineralogical collections of the Museo di Storia Naturale, Università di Pisa, Via Roma 79, Calci (PI), Italy, catalogue number 19926 (holotype), and the Department of Mineralogy and Petrology, National Museum in Prague, Cirkusová 1740, 19300 Prague 9, Czech Republic, catalogue numbers P1P 78/2020 (holotype) and P1P 80/2020 (cotype)

How to cite: Biagioni, C., Sejkora, J., Musetti, S., Makovicky, E., Pagano, R., Pasero, M., and Dolníček, Z.: Stibiogoldfieldite, IMA 2020-104, in: CNMNC Newsletter 61, Eur. J. Mineral., 33, <https://doi.org/10.5194/ejm-33-299-2021>, 2021.

IMA no. 2021-001

Hydroxylbastnäsite-(La)



Vuoriyarvi alkaline-ultrabasic complex, Murmansk Oblast, North Karelia (near the border with Kola Peninsula), Russia (holotype); Mochalin Log REE deposit, 14 km north of Kyshtym, Chelyabinsk Oblast, South Urals, Russia (55°48'42" N, 60°33'46" E – cotype)

Igor V. Pekov*, Natalia V. Zubkova, Anatoly V. Kasatkin, Nikita V. Chukanov, Natalia N. Koshlyakova, Dmitry A. Ksenofontov, Radek Škoda, Sergey N. Britvin, Anatoly S. Kirillov, Anatoly N. Zaitsev, Aleksey M. Kuznetsov, and Dmitry Y. Pushcharovsky

*E-mail: igorpekov@mail.ru

Bastnäsite group

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

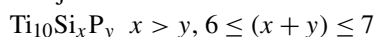
$a = 12.537(3)$, $c = 9.968(2)$ Å
4.98(39), 3.616(88), 2.926(100), 2.089(41), 2.052(46),
1.927(40), 1.701(24), 1.319(20)

Type material is deposited in the collections of the Fersman Mineralogical Museum, Russian Academy of Sciences, Leninskiy Prospekt 18-2, Moscow 119071, Russia, registration numbers 5644/1 (holotype) and 5660/1 (cotype)

How to cite: Pekov, I. V., Zubkova, N. V., Kasatkin, A. V., Chukanov, N. V., Koshlyakova, N. N., Ksenofontov, D. A., Škoda, R., Britvin, S. N., Kirillov, A. S., Zaitsev, A. N., Kuznetsov, A. M., and Pushcharovsky, D. Y.: Hydroxylbastnäsite-(La), IMA 2021-001, in: CNMNC Newsletter 61, Eur. J. Mineral., 33, <https://doi.org/10.5194/ejm-33-299-2021>, 2021.

IMA no. 2019-107c

Wenjiite



Cr-11 orebody, Luobusa ophiolite, about 200 km east-southeast of Lhasa, Kangjinla District, Tibet, China (29°11' N, 92°18' E; 5300 m a.s.l.)

Fahui Xiong*, Xiangzhen Xu, Enrico Mugnaioli, Mauro Gemmi, Richard Wirth, Jingsui Yang, and Edward S. Grew

*E-mail: xiongfahui@126.com

Isostructural with mavlyanovite and xifengite

Hexagonal: $P6_3/mcm$; structure determined

$a = 7.3(1)$, $c = 5.1(1)$ Å
2.54(11), 2.39(31), 2.36(17), 2.16 (100), 2.11(39), 2.09(80),
1.48(17), 1.38(19)

Type material is deposited in the mineralogical collections of the Geological Museum of China, No. 16 Yangrou Hutong, Xisi, Beijing 100031, People's Republic of China, catalogue number M16104

How to cite: Xiong, F., Xu, X., Mugnaioli, E., Gemmi, M., Wirth, R., Yang, Y., and Grew, E. S.: Wenjiite, IMA

2019-107c, in: CNMNC Newsletter 61, Eur. J. Mineral., 33, <https://doi.org/10.5194/ejm-33-299-2021>, 2021.

IMA no. 2019-112b

Kangjinlaite

Ti₁₁Si₁₀

Cr-11 orebody, Luobusa ophiolite, about 200 km east-southeast of Lhasa, Kangjinla District, Tibet, China (29°11' N, 92°18' E; 5300 m a.s.l.)

Fahui Xiong*, Xiangzhen Xu, Enrico Mugnaioli, Mauro Gemmi, Richard Wirth, Edward S. Grew, and Jingsui Yang

*E-mail: xiongfahui@126.com

Isostructural with synthetic Ho₁₁Ge₁₀

Tetragonal: *I4/mmm*; structure determined

$a = 9.4(2)$, $c = 13.5(3)$ Å

2.36(34), 2.28(87), 2.27(100), 2.24(35), 2.23(68), 2.12(22), 2.05(37), 1.58(17)

Type material is deposited in the mineralogical collections of the Geological Museum of China, No. 16 Yangrou Hutong, Xisi, Beijing 100031, People's Republic of China, catalogue number M16104

How to cite: Xiong, F., Xu, X., Mugnaioli, E., Gemmi, M., Wirth, R., Grew, E. S., and Yang, Y.: Kangjinlaite, IMA 2019-112b, in: CNMNC Newsletter 61, Eur. J. Mineral., 33, <https://doi.org/10.5194/ejm-33-299-2021>, 2021.

IMA no. 2020-095a

Beershevaite

CaFe₃³⁺(PO₄)₃O

In paralavas of the Halamish Wadi, Hatrurim basin, southern Negev Desert, Israel (31°09'47" N, 35°17'57" E)

Sergey N. Britvin*, Mikhail N. Murashko, Maria G. Krzhizhanovskaya, Yevgeny Vapnik, Natalia S. Vlasenko, Oleg S. Vereshchagin, Vladimir N. Bocharov, and Evgeny A. Vasiliev

*E-mail: sbritvin@gmail.com

Known synthetic analogue

Monoclinic: *P2₁/m*; structure determined

$a = 7.498(5)$, $b = 6.356(4)$, $c = 10.128(7)$ Å, $\beta = 99.88(1)^\circ$

10.08(39), 4.52(100), 3.85(72), 3.696(98), 3.182(95), 2.947(91), 2.865(48), 2.756(42)

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 5628/1

How to cite: Britvin, S. N., Murashko, M. N., Krzhizhanovskaya, M. G., Vapnik, Y., Vlasenko, N. S., Vereshchagin, O. S., Bocharov, V. N., and Vasiliev, E. A.: Beershevaite, IMA 2020-095a, in: CNMNC Newsletter 61,

Eur. J. Mineral., 33, <https://doi.org/10.5194/ejm-33-299-2021>, 2021.

2 New mineral proposals approved in May 2021

IMA no. 2021-003

Karlditmarite

Cu₉O₄(PO₄)₂(SO₄)₂

Arsenatnaya fumarole, second scoria cone of the Northern Breakthrough of the Great Tolbachik fissure eruption, Tolbachik volcano, Kamchatka, Far Eastern Region, Russia (55°41' N, 160°14' E; 1200 m a.s.l.)

Oleg I. Siidra*, Evgeny V. Nazarchuk, Leonid A. Pautov, Artem S. Borisov, and Evgeniya Y. Avdontseva

*E-mail: o.siidra@spbu.ru

New structure type

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

$a = 6.1256(7)$, $b = 7.9192(8)$, $c = 7.9866(8)$ Å,

$\alpha = 75.173(2)$, $\beta = 86.639(2)$, $\gamma = 88.660(2)^\circ$

7.72(100), 6.28(37), 4.769(25), 4.262(31), 3.750(22), 3.310(26), 3.283(31), 3.199(18)

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 5589/1

How to cite: Siidra, O. I., Nazarchuk, E. V., Pautov, L. A., Borisov, A. S., and Avdontseva, E. Y.: Karlditmarite, IMA 2021-003, in: CNMNC Newsletter 61, Eur. J. Mineral., 33, <https://doi.org/10.5194/ejm-33-299-2021>, 2021.

IMA no. 2021-005

Milkovoite

Cu₄O(PO₄)(AsO₄)

Arsenatnaya fumarole, second scoria cone of the Northern Breakthrough of the Great Tolbachik fissure eruption, Tolbachik volcano, Kamchatka, Far Eastern Region, Russia (55°41' N, 160°14' E; 1200 m a.s.l.)

Oleg I. Siidra*, Evgeny V. Nazarchuk, Leonid A. Pautov, Artem S. Borisov, and Michael S. Kozin

*E-mail: o.siidra@spbu.ru

The P-As analogue of kozyrevskite

Orthorhombic: *Pnma*; structure determined

$a = 8.1865(7)$, $b = 6.3559(5)$, $c = 13.668(1)$ Å

3.413(100), 3.156(48), 3.043(82), 2.897(31), 2.868(42), 2.709(80), 2.684(42), 1.859(35)

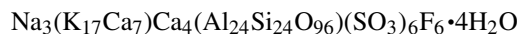
Type material is deposited in the collections of the Fersman Mineralogical Museum, Russian Academy of Sciences, Leninskiy Prospekt 18-2, Moscow 119071, Russia, registration number 5590/1

How to cite: Siidra, O. I., Nazarchuk, E. V., Pautov, L. A., Borisov, A. S., and Kozin, M. S.: Milkovoite, IMA

2021-005, in: CNMNC Newsletter 61, Eur. J. Mineral., 33, <https://doi.org/10.5194/ejm-33-299-2021>, 2021.

IMA no. 2021-007

Studelite



Biachella Valley, Sacrofano Caldera, Sacrofano (RM), Latium, Italy

Nikita V. Chukanov*, Natalia V. Zubkova, Dmitry A. Varlamov, Igor V. Pekov, Dmitry I. Belakovskiy, Sergey N. Britvin, Konstantin V. Van, Vera N. Ermolaeva, Svetlana A. Vozchikova, and Dmitry Y. Pushcharovsky

*E-mail: nikchukanov@yandex.ru

Cancrinite group

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

$$a = 12.8953(1), c = 21.2778(3) \text{ \AA}$$

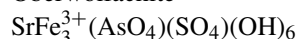
11.15(28), 4.799(25), 3.973(16), 3.721(47), 3.305(100), 2.661(17), 2.471(14), 2.149(21)

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 5665/1

How to cite: Chukanov, N. V., Zubkova, N. V., Varlamov, D. A., Pekov, I. V., Belakovskiy, D. I., Britvin, S. N., Van, K. V., Ermolaeva, V. N., Vozchikova, S. A., and Pushcharovsky, D. Y.: Studelite, IMA 2021-007, in: CNMNC Newsletter 61, Eur. J. Mineral., 33, <https://doi.org/10.5194/ejm-33-299-2021>, 2021.

IMA no. 2021-010

Oberwolfachite



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

Nikita V. Chukanov*, Natalia V. Zubkova, Gerhard Möhn, Dmitry A. Varlamov, Igor V. Pekov, Dmitry A. Ksenofontov, Atali A. Agakhanov, Sergey N. Britvin, Natalia N. Koshlyakova, Joy Desor, Vera N. Ermolaeva, and Dmitry Y. Pushcharovsky

*E-mail: nikchukanov@yandex.ru

Alunite supergroup

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

$$a = 7.3270(3), c = 17.0931(9) \text{ \AA}$$

5.95(56), 3.664(37), 3.117(16), 3.082(100), 2.548(15), 2.280(22), 1.983(26), 1.832(19)

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 5674/1

How to cite: Chukanov, N. V., Zubkova, N. V., Möhn, G., Varlamov, D. A., Pekov, I. V., Ksenofontov, D. A., Agakhanov, A. A., Britvin, S. N., Koshlyakova, N. N., Desor, J., Ermolaeva, V. N., and Pushcharovsky, D. Y. (2021) Oberwolfachite, IMA 2021-010, in: CNMNC Newsletter 61, Eur. J. Mineral., 33, <https://doi.org/10.5194/ejm-33-299-2021>, 2021.

IMA no. 2021-011

Ryabchikovite



Arsenatnaya fumarole, second scoria cone of the Northern Breakthrough of the Great Tolbachik fissure eruption, Tolbachik volcano, Kamchatka, Far Eastern Region, Russia (55°41' N, 160°14' E; 1200 m a.s.l.)

Nadezhda V. Shchipalkina*, Oleg S. Vereshchagin, Igor V. Pekov, Dmitry I. Belakovskiy, Natalia N. Koshlyakova, Vladimir V. Shilovskikh, Dmitriy V. Pankin, Sergey N. Britvin, Fedor D. Sandalov, and Evgeny G. Sidorov

*E-mail: estel58@yandex.ru

Pyroxene group

Monoclinic: $P2_1/c$

$$a = 9.731(9), b = 8.929(8), c = 5.221(4) \text{ \AA}, \beta = 110.00(6)^\circ$$

4.403(38), 4.307(27), 3.746(32), 3.291(27), 3.177(100), 2.876(75), 2.456(26), 2.215(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 5642/1

How to cite: Shchipalkina, N. V., Vereshchagin, O. S., Pekov, I. V., Belakovskiy, D. I., Koshlyakova, N. N., Shilovskikh, V. V., Pankin, D. V., Britvin, S. N., Sandalov, F. D., and Sidorov, E. G.: Ryabchikovite, IMA 2021-011, in: CNMNC Newsletter 61, Eur. J. Mineral., 33, <https://doi.org/10.5194/ejm-33-299-2021>, 2021.

IMA no. 2021-014

Lisanite



Halamish Wadi (Nahal Halamish), Hatrurim basin, Negev Desert, Israel (31°09'47" N, 35°17'57" E)

Sergey N. Britvin*, Michail N. Murashko, Yevgeny Vapnik, Natalia S. Vlasenko, Oleg S. Vereshchagin, and Vladimir N. Bocharov

*E-mail: sbritvin@gmail.com

The Ni analogue of anastasenkoite

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

$$a = 6.474(2), b = 6.526(2), c = 6.519(2) \text{ \AA}, \alpha = 66.57(3), \beta = 82.77(2), \gamma = 87.35(2)^\circ$$

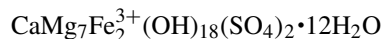
4.389(13), 3.214(21), 3.029(51), 2.994(45), 2.970(17), 2.835(100), 2.718(8), 1.772(10)

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 5629/1

How to cite: Britvin, S. N., Murashko, M. N., Vapnik, Y., Vlasenko, N. S., Vereshchagin, O. S., and Bocharov, V. N.: Lisanite, IMA 2021-014, in: CNMNC Newsletter 61, Eur. J. Mineral., 33, <https://doi.org/10.5194/ejm-33-299-2021>, 2021.

IMA no. 2021-016

Erssonite



Långban mine, Filipstad district, Värmland county, Sweden (59°51'19" N, 14°15'53" E)

Elena S. Zhitova*, Nikita V. Chukanov, Erik Jonsson, Igor V. Pekov, Dmitry I. Belakovsky, Marina F. Viggasina, Natalia V. Zubkova, Konstantin V. Van, and Sergey N. Britvin

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Hydrotalcite supergroup

Trigonal: $P\bar{3}c1$; structure determined

$a = 9.3550(5)$, $c = 22.546(1)$ Å

11.22(90), 5.63(64), 4.670(100), 3.756(35), 2.626(64), 2.435(66), 2.193(40), 1.951(45)

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 5669/1, and the Swedish Museum of Natural History (Naturhistoriska Riksmuseet), P.O. Box 50007, 104 05 Stockholm, Sweden, catalogue number GEO-NRM #20210001

How to cite: Zhitova, E. S., Chukanov, N. V., Jonsson, E., Pekov, I. V., Belakovsky, D. I., Viggasina, M. F., Zubkova, N. V., Van, K. V., and Britvin, S. N.: Erssonite, IMA 2021-016, in: CNMNC Newsletter 61, Eur. J. Mineral., 33, <https://doi.org/10.5194/ejm-33-299-2021>, 2021.

3 Confirmation of siderazot as a valid species

In the IMA List of Minerals siderazot is tagged as Q (i.e. questionable), for the reason that no data on that mineral have been published since the original description (*Ann. Phys. Chem.*, 157, 165–172, 1876). Recently a detailed study on holotype siderazot, which is preserved in the Natural History Museum, London (UK), was carried out (*Minerals*, 11, art. 290, 2021). New chemical (EMPA) and structural (Rietveld) data were obtained. Moreover Raman and reflectance data are given. The complete set of data indicate that siderazot possesses the ϵ -Fe₃N-type structure. In the light of these new data the status of siderazot can be changed from Q to Rd

(i.e. redefined). The chemical formula of siderazot is slightly modified from FeN_x (with $x \approx 0.25$ –0.5) to Fe₃N_{1.33}.

4 Nomenclature/classification proposals approved in May 2021

4.1 IMA 21-A: discreditation of the mineral name hartite and reinstatement of the name branchite

Proposal 21-A is accepted, and the mineral name hartite is discredited and replaced by the name branchite, which has historical priority.

4.2 IMA 21-B: redefinition of gunterite

Proposal 21-B is accepted, and the ideal formula of gunterite is revised from Na₄(H₂O)₁₆(H₂V₁₀O₂₈)•6H₂O to Na₄Ca[V₁₀O₂₈]•20H₂O, based on new structural data and electron-probe microanalyses.

4.3 IMA 21-C: redefinition of jixianite as hydroplumboelsmoreite

Proposal 21-C is accepted, and the questionable species jixianite is renamed hydroplumboelsmoreite. The mineral hydroplumboelsmoreite belongs to the pyrochlore supergroup and has the simplified formula (Pb₂)₂(W,Fe³⁺)₂O₆(H₂O). More specifically it belongs to the elsmoreite group (W⁶⁺ dominant at the B site), with Pb dominant at the A site and H₂O dominant at the anionic Y site.

4.4 Mineral symbols

The proposal to establish mineral symbols has been approved. All existing mineral species have been assigned a symbol. The list of current mineral symbols will be available and kept up to date on the CNMNC website. Mineral symbols will now be required in all new mineral proposals.