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IMA Commission on New Minerals, Nomenclature and Classification (CNMNC) – Newsletter 55

Ritsuro Miyawaki[1], Frédéric Hatert[2], Marco Pasero[3], and Stuart J. Mills[4]

[1]Chairman, CNMNC | Department of Geology, National Museum of Nature and Science, 4-1-1 Amakubo, Tsukuba 305-0005, Japan
[2]Vice-Chairman, CNMNC | Laboratoire de Minéralogie, Université de Liège, Bâtiment B18, Sart Tilman, 4000 Liège, Belgium
[3]Vice-Chairman, CNMNC | Dipartimento di Scienze della Terra, Università di Pisa, Via Santa Maria 53, 56126 Pisa, Italy
[4]Secretary, CNMNC | Geosciences, Museum Victoria, P.O. Box 666, Melbourne, Victoria 3001, Australia

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

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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 2020

IMA no. 2019-128

Ammoniotinsleyite
$(NH_4)Al_2(PO_4)_2(OH) \cdot 2H_2O$
In a guano deposit on the lower part of the steep southern slope of Pabellón de Pica, near Chanabaya, Iquique Province, Tarapacá, Chile (20°54′55″ S, 70°08′25″ W)
Nikita V. Chukanov*, Gerhard Möhn, Igor V. Pekov, Natalia V. Zubkova, Dmitry A. Ksenofontov, Dmitry I. Belakovskiy, Svetlana A. Vozchikova, Sergey N. Britvin, and Joy Desor
*E-mail: nikchukanov@yandex.ru
The NH_4-dominant analogue of tinsleyite
Monoclinic: $P2_1/n$; structure determined
$a = 9.5871(1)$, $b = 9.6089(1)$, $c = 9.6467(1)$ Å, $\beta = 103.446(1)°$
7.50(23), 6.71(79), 5.947(100), 4.676(36), 3.032(28), 2.958(25), 2.846(22), 2.635(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 5510/1
How to cite: Chukanov, N. V., Möhn, G., Pekov, I. V., Zubkova, N. V., Ksenofontov, D. A., Belakovskiy, D. I.,

Vozchikova, S. A., Britvin, S. N., and Desor, J.: Ammoniotinsleyite, IMA 2019-128, in: CNMNC Newsletter 55, Eur. J. Mineral., 32, https://doi.org/10.5194/ejm-32-367-2020, 2020.

IMA no. 2019-129

Tomamaeite

Cu_3Pt

As inclusions in platinum-group mineral (PGM) grain from the coast, Tomamae, Hokkaido, Japan (44°17′09″ N, 141°38′58″ E)

Daisuke Nishio-Hamane* and Katsuyuki Saito

*E-mail: hamane@issp.u-tokyo.ac.jp

The Pt analogue of auricupride

Cubic: $Pm\bar{3}$ m

$a = 3.683(2)$ Å

2.596(35), 2.123(100), 1.843(96), 1.646(28), 1.303(42)

Type material is deposited in the mineralogical collections of the National Museum of Nature and Science, Tsukuba, Japan, specimen number NSM-47328

How to cite: Nishio-Hamane, D. and Saito, K.: Tomamaeite, IMA 2019-129, in: CNMNC Newsletter 55, Eur. J. Mineral., 32, https://doi.org/10.5194/ejm-32-367-2020, 2020.

IMA no. 2019-130

Pokhodyashinite

$Cu_2Tl_3Sb_5As_2S_{13}$

Vorontsovskoe gold deposit, ca. 13 km S of the city of Krasnoturinsk, Sverdlovsk Oblast, Northern Urals, Russia (59°38′52″ N, 60°12′55″ E)

Anatoly V. Kasatkin*, Emil Makovicky, Jakub Plášil, Radek Škoda, Atali A. Agakhanov, and Mikhail V. Tsyganko

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

New structure type

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

$a = 7.996(2)$, $b = 11.882(2)$, $c = 14.061(3)$ Å, $\alpha = 109.80(2)$, $\beta = 90.04(2)$, $\gamma = 99.68(2)$°

3.836(53), 3.834(55), 3.674(100), 3.463(97), 2.996(67), 2.994(73), 2.847(41), 2.750(98)

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 5517/1

How to cite: Kasatkin, A. V., Makovicky, E., Plášil, J., Škoda, R., Agakhanov, A. A., and Tsyganko, M. V.: Pokhodyashinite, IMA 2019-130, in: CNMNC Newsletter 55, Eur. J. Mineral., 32, https://doi.org/10.5194/ejm-32-367-2020, 2020.

IMA no. 2019-131

Trebiskyite

$Na_3Mg_2[TiV_9O_{28}]\cdot 22H_2O$

Pickett Corral mine, Bull Canyon, Montrose Co., Colorado, USA (38°11′43″ N, 108°50′36″ W)

Travis A. Olds*, Anthony R. Kampf, Mark A. Cooper, Paul M. Adams, and Joe Marty

*E-mail: toldxls@gmail.com

New structure type

Monoclinic: $P2_1/c$; structure determined

$a = 9.478(4)$, $b = 21.426(11)$, $c = 11.267(5)$ Å, $\beta = 114.572(7)$°

10.73(87), 9.24(100), 8.52(78), 7.99(52), 3.294(18), 3.056(26), 2.855(18), 2.752(23)

Cotype 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 numbers 74521, 74522, 74523, and 74524

How to cite: Olds, T. A., Kampf, A. R., Cooper, M. A., Adams, P. M., and Marty, J.: Trebiskyite, IMA 2019-131, in: CNMNC Newsletter 55, Eur. J. Mineral., 32, https://doi.org/10.5194/ejm-32-367-2020, 2020.

IMA no. 2019-132

Pyradoketosite

Ag_3SbS_3

Sant'Olga tunnel, Monte Arsiccio mine, Stazzema (LU), Apuan Alps, Tuscany, Italy (43°58′ N, 10°17′ E)

Cristian Biagioni*, Luca Bindi, Yves Moëlo, Christopher J. Stanley, and Federica Zaccarini

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

A polymorph of Ag_3SbS_3 after pyrargyrite and pyrostilpnite

Monoclinic: $P2_1/n$; structure determined

$a = 13.751(1)$, $b = 6.9350(6)$, $c = 19.555(2)$ Å, $\beta = 94.807(4)$°

6.4(w), 3.381(mw), 3.035(s), 2.505(mw), 2.441(mw), 2.160(mw), 1.912(mw), 1.878(mw)

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 19913

How to cite: Biagioni, C., Bindi, L., Moëlo, Y., Stanley, C. J., and Zaccarini, F.: Pyradoketosite, IMA 2019-132, in: CNMNC Newsletter 55, Eur. J. Mineral., 32, https://doi.org/10.5194/ejm-32-367-2020, 2020.

IMA no. 2019-133

Nioboheftetjernite

$ScNbO_4$

Befanamo, 80 km north of Antananarivo, along upper Betsiboka River, Analamanga, Madagascar

Inna Lykova*, Ralph Rowe, Glenn Poirier, Andrew M. McDonald, and Gerald Giester

*E-mail: ilykova@nature.ca

Wolframite group
Monoclinic: $P2_1/c$; structure determined
$a = 4.7092(3)$, $b = 5.6531(4)$, $c = 5.0530(4)$ Å, $\beta = 90.453(3)°$
4.722(22), 3.776(22), 3.628(44), 2.961(100), 2.938(83), 2.534(18), 2.472(30), 1.445(21)
Type material is deposited in the mineralogical collections of the Canadian Museum of Nature, 240 McLeod Street, Ottawa, Ontario, Canada, catalogue number CMNMC 51710
How to cite: Lykova, I., Rowe, R., Poirier, G., McDonald, A. M., and Giester, G.: Nioboheftetjernite, IMA 2019-133, in: CNMNC Newsletter 55, Eur. J. Mineral., 32, https://doi.org/10.5194/ejm-32-367-2020, 2020.

IMA no. 2019-134

Natrosulfatourea
$Na_2(SO_4)[CO(NH_2)_2]$
Rowley mine (125-foot level), ca. 20 km NW of Theba, Maricopa Co., Arizona, USA (33°02′57″ N, 113°01′50″ W)
Anthony R. Kampf*, Aaron J. Celestian, Barbara P. Nash, and Joe Marty
*E-mail: akampf@nhm.org
New structure type
Orthorhombic: *Pbcn*; structure determined
$a = 5.5918(4)$, $b = 18.181(1)$, $c = 6.7179(5)$ Å
9.08(100), 5.34(36), 4.179(77), 3.765(34), 3.047(61), 2.835(29), 2.792(29), 2.599(33)
Cotype 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 numbers 74491 and 74492
How to cite: Kampf, A. R., Celestian, A. J., Nash, B. P., and Marty, J.: Natrosulfatourea, IMA 2019-134, in: CNMNC Newsletter 55, Eur. J. Mineral., 32, https://doi.org/10.5194/ejm-32-367-2020, 2020.

IMA no. 2019-135

Arsenotučekite
$Ni_{18}Sb_3AsS_{16}$
Tsangli chromite deposit, Othrys ophiolite, Greece
Federica Zaccarini*, Luca Bindi, Basilios Tsikouras, Tassos Grammatikopoulos, Christopher J. Stanley, and Giorgio Garuti
*E-mail: federica.zaccarini@unileoben.ac.at
Hauchecornite group
Tetragonal: $I4/mmm$; structure determined
$a = 9.7856(3)$, $c = 10.7582(6)$ Å
3.560(56), 3.094(85), 2.682(81), 2.357(96), 2.188(75), 1.810(100), 1.751(91), 1.730(47)
Type material is deposited in the mineralogical collections of the Natural History Museum, Cromwell Road, London SW7 5BD, United Kingdom, catalogue number BM 2020,1
How to cite: Zaccarini, F., Bindi, L., Tsikouras, B., Grammatikopoulos, T., Stanley, C. J., and Garuti, G.: Arsenotučekite, IMA 2019-135, in: CNMNC Newsletter 55, Eur. J. Mineral., 32, https://doi.org/10.5194/ejm-32-367-2020, 2020.

IMA no. 2019-136

Richardsite
Zn_2CuGaS_4
Merelani mines, Lelatema Mountains, Simanjiro District, Manyara Region, Tanzania
Luca Bindi and John A. Jaszczak
*E-mail: luca.bindi@unifi.it
Stannite group
Tetragonal: $I\bar{4}2m$; structure determined
$a = 5.3626(2)$, $c = 10.5873(5)$ Å
3.084(100), 1.898(20), 1.882(40), 1.614(20), 1.600(10), 1.092(10)
Type material is deposited in the mineralogical collections of the Museo di Storia Naturale, Università di Firenze, Via La Pira 4, I-50121, Florence, Italy, catalogue number 3555/I
How to cite: Bindi, L. and Jaszczak, J. A.: Richardsite, IMA 2019-136, in: CNMNC Newsletter 55, Eur. J. Mineral., 32, https://doi.org/10.5194/ejm-32-367-2020, 2020.

2 New mineral proposals approved in May 2020

IMA no. 2020-001

Heamanite-(Ce)
$(K_{0.5}Ce_{0.5})TiO_3$
As inclusions in a diamond from the Gahcho Kué mine (5034 pipe), Northwest Territories, Canada (63°26′04″ N, 109°11′10″ W)
Chiara Anzolini*, William Siva-Jothy, Andrew J. Locock, Fabrizio Nestola, Tonci Balić-Žunić, Matteo Alvaro, Thomas Stachel, and D. Graham Pearson
*E-mail: anzolini@ualberta.ca
Perovskite group
Cubic: $Pm\bar{3}m$; structure determined
$a = 3.9129(9)$ Å
2.764(100), 2.259(7), 1.954(31), 1.596(42), 1.382(20), 1.236(15), 1.128(8), 1.045(19)
Type material is deposited in the mineralogical collections of the Royal Ontario Museum, 100 Queen's Park, Toronto, ON M5S 2C6, Canada, catalogue number M59970
How to cite: Anzolini, C., Siva-Jothy, W., Locock, A. J., Nestola, F., Balić-Žunić, T., Alvaro, M., Stachel, T., and Pearson, D. G.: Heamanite-(Ce), IMA 2020-

001, in: CNMNC Newsletter 55, Eur. J. Mineral., 32, https://doi.org/10.5194/ejm-32-367-2020, 2020.

IMA no. 2020-002

Priscillagrewite-(Y)
$YCa_2Zr_2Al_3O_{12}$
Daba marble quarry, Tulul Al Hammam area, Hatrurim Complex, Jordan (31°32′31″ N, 36°10′19″ E)
Irina Galuskina*, Evgeny Galuskin, Yevgeny Vapnik, Grzegorz Zeliński, and Krystian Prusik
*E-mail: irina.galuskina@us.edu.pl
Garnet supergroup
Cubic: $Ia\bar{3}d$
$a = 12.50(3)$ Å
4.420(100), 3.126(82), 2.796(36), 2.552(86), 2.452(11), 2.283(12), 2.028(9), 1.977(40)
Type material is deposited in the collections of the Fersman Mineralogical Museum, Russian Academy of Sciences, Leninskiy Prospekt 18/k, Moscow 115162, Russia, catalogue number 5540/1
How to cite: Galuskina, I., Galuskin, E., Vapnik, Y., Zeliński, G., and Prusik, K.: Priscillagrewite-(Y), IMA 2020-002, in: CNMNC Newsletter 55, Eur. J. Mineral., 32, https://doi.org/10.5194/ejm-32-367-2020, 2020.

IMA no. 2020-003
Manganoarrojadite-(KNa)
$KNa_5MnFe_{13}Al(PO_4)_{11}(PO_3OH)(OH)_2$
Palermo No. 1 mine, Grafton Co., New Hampshire, USA (43°45′04″ N, 71°53′22″ W)
Inna Lykova*, Ralph Rowe, Glenn Poirier, Henrik Friis, and Kate Helwig
*E-mail: ilykova@nature.ca
Arrojadite group
Monoclinic: Cc; structure determined
$a = 16.5345(3)$, $b = 10.0406(2)$, $c = 24.6261(5)$ Å, $\beta = 105.891(2)°$
5.902(24), 5.025(24), 3.401(21), 3.208(47), 3.048(100), 2.853(20), 2.758(24), 2.704(70)
Type material is deposited in the mineralogical collections of the Canadian Museum of Nature, 240 McLeod Street, Ottawa, Ontario K2P 2R1, Canada, catalogue number CMNMC 47194
How to cite: Lykova, I., Rowe, R., Poirier, G., Friis, H., and Helwig, K.: Manganoarrojadite-(KNa), IMA 2020-003, in: CNMNC Newsletter 55, Eur. J. Mineral., 32, https://doi.org/10.5194/ejm-32-367-2020, 2020.

IMA no. 2020-005

Crocobelonite
$CaFe_2^{3+}O(PO_4)_2$
In paralavas exposed in phosphorite quarry, Daba-Siwaqa pyrometamorphic complex, Transjordan Plateau, Jordan (31°21′52″ N, 36°10′55″ E)
Sergey N. Britvin*, Mikhail N. Murashko, Maria G. Krzhizhanovskaya, Natalia S. Vlasenko, Oleg S. Vereshchagin, Yevgeny Vapnik, and Dmitrii V. Pankin
*E-mail: sbritvin@gmail.com
New structure type
Orthorhombic: *Pnma*; structure determined
$a = 14.2757(1)$, $b = 6.3832(1)$, $c = 7.3169(1)$ Å
6.54(16), 5.12(26), 3.549(100), 3.200(50), 2.912(19), 2.869(40), 2.662(21), 2.264(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 number 5559/1
How to cite: Britvin, S. N., Murashko, M. N., Krzhizhanovskaya, M. G., Vlasenko, N. S., Vereshchagin, O. S., Vapnik, Y., and Pankin, D. V.: Crocobelonite, IMA 2020-005, in: CNMNC Newsletter 55, Eur. J. Mineral., 32, https://doi.org/10.5194/ejm-32-367-2020, 2020.

IMA no. 2020-006

Bimbowrieite
$NaMgFe_5^{3+}(PO_4)_4(OH)_6 \cdot 2H_2O$
White Rock No. 2 quarry, Bimbowrie Conservation Park, 24 km N of Olary, South Australia, Australia (32°04′ S, 140°19′ E)
Peter Elliott and Anthony R. Kampf
*E-mail: peter.elliott@adelaide.edu.au
Dufrénite group
Monoclinic: $C2/c$; structure determined
$a = 25.995(5)$, $b = 5.151(1)$, $c = 13.892(3)$ Å, $\beta = 111.61(3)°$
12.3(63), 5.04(100), 3.443(96), 3.234(93), 3.919(84), 2.884(60), 2.433(61), 1.586(65)
Type material is deposited in the mineralogical collections of the South Australian Museum, North Terrace, Adelaide, South Australia 5000, Australia, registration number G34867
How to cite: Elliott, P. and Kampf, A. R.: Bimbowrieite, IMA 2020-006, in: CNMNC Newsletter 55, Eur. J. Mineral., 32, https://doi.org/10.5194/ejm-32-367-2020, 2020.

IMA no. 2020-007

Plumboperloffite
$PbMn_2^{2+}Fe_2^{3+}(PO_4)_3(OH)_3$
In the dumps of the 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

The Pb analogue of perloffite
Monoclinic: $P2_1/m$; structure determined
$a = 9.176(2)$, $b = 12.340(3)$, $c = 5.009(1)$ Å, $\beta = 101.01(3)^\circ$
5.105(40), 4.583(30), 3.158(100), 2.950(42), 2.738(58), 2.205(30), 1.992(29), 1.938(57)
Type material is deposited in the mineralogical collections of the South Australian Museum, North Terrace, Adelaide, South Australia 5000, Australia, registration number G34868
How to cite: Elliott, P. and Kampf, A. R.: Plumboperloffite, IMA 2020-007, in: CNMNC Newsletter 55, Eur. J. Mineral., 32, https://doi.org/10.5194/ejm-32-367-2020, 2020.

3 Nomenclature/classification proposals approved in May 2020

IMA 20-A: Discreditation of surkhobite

Proposal 20-A is accepted. Surkhobite is discredited as it is identical to perraultite which has priority.