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

Newsletter 55

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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 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 web site.

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 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 Mountain, near Chanabaya village, Iquique Province, Tarapacá Region, 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. (2020) Ammoniotinsleyite, IMA 2019-128. CNMNC Newsletter No. 55; *Mineralogical Magazine*, **84**, https://doi.org/10.1180/mgm.2020.39

IMA No. **2019-129**
Tomamaeite
Cu_3Pt
As inclusions in platinum-group mineral (PGM) grain from the coast, Tomamae town, Hokkaido, Japan (44°17′09″N, 141°38′58″E)
Daisuke Nishio-Hamane* and Katsuyuki Saito

***Author for correspondence**: Marco Pasero, Email: marco.pasero@unipi.it
Cite this article: Miyawaki R., Hatert F., Pasero M. and Mills S.J. (2020) IMA Commission on New Minerals, Nomenclature and Classification (CNMNC) – Newsletter 55. *Mineralogical Magazine* **84**, 485–488. https://doi.org/10.1180/mgm.2020.39

*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. (2020) Tomamaeite, IMA 2019-129. CNMNC Newsletter No. 55; *Mineralogical Magazine*, **84**, https://doi.org/10.1180/mgm.2020.39

IMA No. **2019-130**
Pokhodyashinite
$Cu_2Tl_3Sb_5As_2S_{13}$
Vorontsovskoe gold deposit, ca. 13 km S of the city of Krasnotur'insk, Sverdlovskaya 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. (2020) Pokhodyashinite, IMA 2019-130. CNMNC Newsletter No. 55; *Mineralogical Magazine*, **84**, https://doi.org/10.1180/mgm.2020.39

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. (2020) Trebiskyite, IMA 2019-131. CNMNC Newsletter No. 55; *Mineralogical Magazine*, **84**, https://doi.org/10.1180/mgm.2020.39

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. (2020) Pyradoketosite, IMA 2019-132. CNMNC Newsletter No. 55; *Mineralogical Magazine*, **84**, https://doi.org/10.1180/mgm.2020.39

IMA No. **2019-133**
Nioboheftetjernite
$ScNbO_4$
Befanamo, 80 km N 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. (2020) Nioboheftetjernite, IMA 2019-133. CNMNC Newsletter No. 55; *Mineralogical Magazine*, **84**, https://doi.org/10.1180/mgm.2020.39

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. (2020) Natrosulfatourea, IMA 2019-134. CNMNC

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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: *I*4/*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. (2020) Arsenotučekite, IMA 2019-135. CNMNC Newsletter No. 55; *Mineralogical Magazine*, **84**, https://doi.org/10.1180/mgm.2020.39

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, Firenze, Italy, catalogue number 3555/I
How to cite: Bindi, L. and Jaszczak, J.A. (2020) Arsenotučekite, IMA 2019-135. CNMNC Newsletter No. 55; *Mineralogical Magazine*, **84**, https://doi.org/10.1180/mgm.2020.39

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. (2020) Heamanite-(Ce), IMA 2020-001. CNMNC Newsletter No. 55; *Mineralogical Magazine*, **84**, https://doi.org/10.1180/mgm.2020.39

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. (2020) Priscillagrewite-(Y), IMA 2020-002. CNMNC Newsletter No. 55; *Mineralogical Magazine*, **84**, https://doi.org/10.1180/mgm.2020.39

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. (2020) Manganoarrojadite-(KNa), IMA 2020-003. CNMNC Newsletter No. 55; *Mineralogical Magazine*, **84**, https://doi.org/10.1180/mgm.2020.39

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. (2020) Crocobelonite, IMA 2020-005. CNMNC Newsletter No. 55; *Mineralogical Magazine*, **84**, https://doi.org/10.1180/mgm.2020.39

IMA No. **2020-006**
Bimbowrieite
$NaMgFe^{3+}_5(PO_4)_4(OH)_6{\cdot}2H_2O$
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: *C*2/*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. (2020) Bimbowrieite, IMA 2020-006. CNMNC Newsletter No. 55; *Mineralogical Magazine*, **84**, https://doi.org/10.1180/mgm.2020.39

IMA No. **2020-007**
Plumboperloffite
$PbMn^{2+}_2Fe^{3+}_2(PO_4)_3(OH)_3$
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, $\beta = 101.01(3)°$
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. (2020) Plumboperloffite, IMA 2020-007. CNMNC Newsletter No. 55; *Mineralogical Magazine*, **84**, https://doi.org/10.1180/mgm.2020.39

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.

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