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CNMNC Newsletter

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

NEWSLETTER 19

New minerals and nomenclature modifications approved in 2014

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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 *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

DOI: 10.1180/minmag.2014.078.1.12

NEW MINERAL PROPOSALS APPROVED IN DECEMBER 2013

IMA No. **2013-101**
Strontiopharmacosiderite
$Sr_{0.5}Fe_4[(AsO_4)_3(OH)_4]\cdot 4H_2O$
La Plâtrière quarry, Granges, Wallis, Switzerland
Stuart J. Mills*, Nicolas Meisser, Mike S. Rumsey, David G. Hay, John Spratt, Stefan Ansermet and Pierre Vonlanthen
*E-mail: smills@museum.vic.gov.au
Pharmacosiderite group
Tetragonal: $P\bar{4}2m$
a = 8.084(27), c = 8.151(5) Å
3.309(55), 2.874(100), 2.574(45), 2.456(40), 2.332(55), 1.908(50), 1.808(60)
Type material is deposited in the collections of the Musée Cantonal de Géologie, Lausanne, Switzerland, registration number MGL 92956; cotype material is housed in the Geosciences collections at Museum Victoria, Melbourne, Australia, registration number M52282, and the Type Collection of the Natural History Museum, London, UK, registration number BM 2013,150
How to cite: Mills, S.J., Meisser, N., Rumsey, M.S., Hay, D.G., Spratt, J., Ansermet, S. and Vonlanthen, P. (2014) Strontiopharmacosiderite, IMA 2013-101. CNMNC Newsletter No. 19, February 2014, page 166; *Mineralogical Magazine*, **78**, 165–170.

IMA No. **2013-102**
Fluorlamprophyllite
$Na_3(SrNa)Ti_3(Si_2O_7)_2O_2F_2$
Poços de Caldas alkaline massif, Morro do Serrote, Minas Gerais, Brazil (21º53′05″S, 46º38′45″W)
Marcelo B. Andrade*, Hexiong Yang, Robert T. Downs, Gunnar Färber, Reynaldo R. Contreira Filho, Stanley H. Evans, Clayton W. Loehn and Benjamin N. Schumer
*E-mail: mabadean@terra.com.br
Lamprophyllite group
Monoclinic: $C2/m$; structure determined
a = 19.255(2), b = 7.0715(7), c = 5.3807(6) Å, β = 96.794(2)º
4.1468(60), 3.7255(36), 3.3935(20), 3.2012(21), 2.7765(100), 2.1336(32), 1.7686(24), 1.5992(22)
Cotype material is deposited in the collections of the University of Arizona Mineral Museum, Tucson, Arizona, USA, catalogue number 19589, and the RRUFF Project, deposition number R130421
How to cite: Andrade, M.B., Yang, H., Downs, R.T., Färber, G., Contreira Filho, R.R., Evans, S.H., Loehn, C.W. and Schumer, B.N. (2014) Fluorlamprophyllite, IMA 2013-102. CNMNC Newsletter No. 19, February 2014, page 166; *Mineralogical Magazine*, **78**, 165–170.

IMA No. **2013-103**
Achalaite
$(Fe^{2+},Mn)(Ti,Fe^{3+},Ta)(Nb,Ta)_2O_8$
Cerro Los Mogotes, Cañada del Puerto, Córdoba, Argentina (31º25′21.7″S, 64º55′4.6″W)
Miguel Ángel Galliski*, María Florencia Márquez-Zavalía, Petr Černý, Raúl Lira, Andrew C. Roberts and Heinz-Jürgen Bernhardt
*E-mail: galliski@mendoza-conicet.gov.ar
Wodginite group
Monoclinic: $C2/c$
a = 9.422(4), b = 11.427(3), c = 5.120(1) Å, β = 90.12(4)º
3.630(40), 2.964(100), 2.564(35), 2.493(40), 1.766(35), 1.735(40), 1.711(50), 1.453(40)
Type material is deposited in the collections of the Museo de Mineralogía y Geología "Dr. Alfred Stelzner", Universidad Nacional de Córdoba, Cordoba, Argentina, catalogue number 3279
How to cite: Galliski, M.Á., Márquez-Zavalía, M.F., Černý, P., Lira, R., Roberts, A.C. and Bernhardt, H.-J. (2014) Achalaite, IMA 2013-103. CNMNC Newsletter No. 19, February 2014, page 166; *Mineralogical Magazine*, **78**, 165–170.

IMA No. **2013-104**
Negevite
NiP_2
Halamish Wadi, southern Hatrurim Formation, Negev Desert, Israel (31º09′47″N, 35º17′57″E)
Sergey N. Britvin*, Michail N. Murashko, Ye. Vapnik, Yury S. Polekhovsky and Sergey V. Krivovichev
*E-mail: sbritvin@gmail.com
Pyrite structure type
Cubic: $Pa\bar{3}$; structure determined
a = 5.4816(5) Å
3.165(54), 2.741(95), 2.451(42), 2.238(35), 1.938(54), 1.653(100), 1.582(17), 1.465(17)
Type material is deposited in the collections of

the Mineralogical Museum of the Department of Mineralogy, St Petersburg State University, St Petersburg, Russia, catalogue number 19604
How to cite: Britvin, S.N., Murashko, M.N., Vapnik, Ye., Polekhovsky, Y.S. and Krivovichev, S.V. (2014) Negevite, IMA 2013-104. CNMNC Newsletter No. 19, February 2014, page 166; *Mineralogical Magazine*, **78**, 165–170.

IMA No. **2013-105**
Halamishite
Ni_5P_4
Halamish Wadi, southern Hatrurim Formation, Negev Desert, Israel (31º09′47″N, 35º17′57″E)
Sergey N. Britvin*, Michail N. Murashko, Ye. Vapnik, Yury S. Polekhovsky and Sergey V. Krivovichev
*E-mail: sbritvin@gmail.com
Known synthetic analogue
Hexagonal: $P6_3mc$; structure determined
a = 6.8184(4), c = 11.0288(8) Å
2.953(56), 2.498(57), 2.069(57), 2.015(88), 1.938(69), 1.908(77), 1.735(100), 1.705(58)
Type material is deposited in the collections of the Mineralogical Museum of the Department of Mineralogy, St Petersburg State University, St Petersburg, Russia, catalogue number 19606
How to cite: Britvin, S.N., Murashko, M.N., Vapnik, Ye., Polekhovsky, Y.S. and Krivovichev, S.V. (2014) Halamishite, IMA 2013-105. CNMNC Newsletter No. 19, February 2014, page 167; *Mineralogical Magazine*, **78**, 165–170.

IMA No. **2013-106**
Transjordanite
Ni_2P
Transjordan Plateau, northeastern Hatrurim Formation, Jordan (31º21′52.2″N, 36º10′55.1″E) (holotype); Halamish Wadi, southern Hatrurim Formation, Negev Desert, Israel (31º09′47″N, 35º17′57″E) (cotype)
Sergey N. Britvin*, Michail N. Murashko, Ye. Vapnik, Yury S. Polekhovsky and Sergey V. Krivovichev
*E-mail: sbritvin@gmail.com
Ni analogue of barringerite
Hexagonal: $P\bar{6}2m$; structure determined
a = 5.8837(3), c = 3.3492(4) Å
2.211(100), 2.028(42), 1.926(37), 1.697(21), 1.676(18), 1.672(18), 1.104(20)
Type material is deposited in the collections of the Mineralogical Museum of the Department of Mineralogy, St Petersburg State University, St Petersburg, Russia, catalogue number 19605
How to cite: Britvin, S.N., Murashko, M.N., Vapnik, Ye., Polekhovsky, Y.S. and Krivovichev, S.V. (2013) Transjordanite, IMA 2013-106. CNMNC Newsletter No. 19, February 2014, page 167; *Mineralogical Magazine*, **78**, 165–170.

IMA No. **2013-107**
Zuktamrurite
FeP_2
Halamish Wadi, southern Hatrurim Formation, Negev Desert, Israel (31º09′47″N, 35º17′57″E)
Sergey N. Britvin*, Michail N. Murashko, Ye. Vapnik, Yury S. Polekhovsky and Sergey V. Krivovichev
*E-mail: sbritvin@gmail.com
Marcasite structure type
Orthorhombic: *Pnnn*; structure determined
a = 4.9276(6), b = 5.6460(7), c = 2.8174(4) Å
3.713(61), 2.823(30), 2.450(36), 2.446(100), 1.849(32), 1.762(55), 1.577(27), 1.565(29)
Type material is deposited in the collections of the Mineralogical Museum of the Department of Mineralogy, St Petersburg State University, St Petersburg, Russia, catalogue number 19607
How to cite: Britvin, S.N., Murashko, M.N., Vapnik, Ye., Polekhovsky, Y.S. and Krivovichev, S.V. (2014) Zuktamrurite, IMA 2013-107. CNMNC Newsletter No. 19, February 2014, page 167; *Mineralogical Magazine*, **78**, 165–170.

IMA No. **2013-108**
Waimirite-(Y)
YF_3
Pitinga mine, Presidente Figueiredo, Amazonas, Brazil (0º44′43″S, 60º7′40″W)
Artur C. Bastos Neto, Vitor P. Pereira, Daniel Atencio*, José T.M.M. Ferron and José M.V. Coutinho
*E-mail: datencio@usp.br
Known synthetic analogue
Orthorhombic: *Pnma*
a = 6.386(1), b = 6.877(1), c = 4.401(1) Å
3.707(26), 3.623(78), 3.438(99), 3.205(100), 2.894(59), 1.937(33), 1.916(24), 1.862(27)
Type material is deposited in the collections of the Museu de Geociências, Instituto de Geociências, Universidade de São Paulo, São Paulo, Brazil, specimen number DR919, and the

Museu de Mineralogia Luiz Englert, Departamento de Mineralogia e Petrologia, Instituto de Geociências, Universidade Federal do Rio Grande do Sul, Porto Alegre, Brazil, specimen number 3620

How to cite: Bastos Neto, A.C., Pereira, V.P., Atencio, D., Ferron, J.T.M.M. and Coutinho, J.M.V. (2014) Waimirite-(Y), IMA 2013-108. CNMNC Newsletter No. 19, February 2014, page 167; *Mineralogical Magazine*, **78**, 165–170.

IMA No. **2013-109**

Kuratite

$Ca_2(Fe^{2+}_5Ti)O_2[Si_4Al_2O_{18}]$

D'Orbigny angrite (a meteorite found in Argentina)

Shyh-Lung Hwang*, Pouyan Shen, Hao-Tsu Chu, Tzen-Fu Yui, Maria-Eugenia Varela and Yoshiyuki Iizuka

*E-mail: slhwang@mail.ndhu.edu.tw

Aenigmatite group

Triclinic: $P\bar{1}$

a = 10.513(7), b = 10.887(7), c = 9.004(18) Å, α = 105.97(13), β = 96.00(12), γ = 124.82(4)°

2,97, 2.72, 2.58, 2.44, 2.13, 2.12

Type material is deposited in the collections of the Naturhistorisches Museum Wien, Vienna, Austria, inventory number Section D'Orbigny C-N1172-NH Wien

How to cite: Hwang, S.-L., Shen, P., Chu, H.-T., Yui, T.-F., Varela, M.-E. and Iizuka, Y. (2014) Kuratite, IMA 2013-109. CNMNC Newsletter No. 19, February 2014, page 168; *Mineralogical Magazine*, **78**, 165–170.

IMA No. **2013-111**

Jahnsite-(CaFeMg)

$CaFe^{2+}Mg_2Fe^{3+}_2(PO_4)_4(OH)_2{\cdot}8H_2O$

Tom's Quarry, Kapunda, South Australia, Australia

Peter Elliott

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

Whiteite-jahnsite group

Monoclinic: $P2/a$; structure determined

a = 14.975(5), b = 7.1645(14), c = 9.928(2) Å, β = 110.65(3)°

9.339(100), 4.923(20), 3.562(20), 3.518(20), 3.453(20), 2.965(20), 2.839(35), 2.592(20)

Type material is deposited in the collections of the South Australian Museum, Adelaide, South Australia, Australia, registration number G34045

How to cite: Elliott, P. (2014) Jahnsite-(CaFeMg), IMA 2013-111. CNMNC Newsletter No. 19, February 2014, page 168; *Mineralogical Magazine*, **78**, 165–170.

IMA No. **2013-112**

Torrecillasite

$Na(As,Sb)^{3+}_4O_6Cl$

Torrecillas mine, Salar Grande, Iquique Province, Tarapacá Region, Chile (20º58′13″S, 70º8′17″W)

Anthony R. Kampf*, Barbara Nash and Maurizio Dini

E-mail: akampf@nhm.org

The Cl analogue of synthetic $NaAs_4O_6Br$

Orthorhombic: *Pmcn*; structure determined

a = 5.2580(9), b = 8.0620(13), c = 18.654(3) Å

4.2975(33), 4.0308(78), 3.0353(100), 2.8534(39), 2.6419(84), 2.4259(34), 1.8936(32), 1.8026(29)

Type material is deposited in the collections of the Natural History Museum of Los Angeles County, Los Angeles, CA 90007, USA, catalogue numbers 64079, 64080, 64081 and 64082

How to cite: Kampf, A.R., Nash, B. and Dini, M. (2014) Torrecillasite, IMA 2013-112. CNMNC Newsletter No. 19, February 2014, page 168; *Mineralogical Magazine*, **78**, 165–170.

NEW MINERAL PROPOSALS APPROVED IN JANUARY 2014

IMA No. **2013-110**

Centennialite

$CaCu_3Cl_2(OH)_6{\cdot}nH_2O$ ($n \sim 0.7$)

Centennial mine, Calumet, Houghton County, Michigan, USA

Wilson A. Crichton* and Harald Müller

E-mail: crichton@esrf.fr

Related to kapellasite, haydeeite and misakiite

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

a = 6.6630(2), c = 5.8041(3) Å

5.799(100), 2.886(51), 2.583(75), 2.045(32), 1.665(20), 1.605(17), 1.600(15), 1.444(11)

Type material is deposited in the collections of the Musée de Mineralogie, Paris, France, collection number 83080 and 14073, and the Mineral Museum of the University of Arizona, Tucson, Arizona, USA, catalogue number 19588 and 8789

How to cite: Crichton, W.A. and Müller, H. (2014) Centennialite, IMA 2013-110. CNMNC Newsletter No. 19, February 2014, page 168; *Mineralogical Magazine*, **78**, 165–170.

IMA No. **2013-113**

Backite

Pb_2AlTeO_6Cl

Grand Central mine, Tombstone District, Cochise County, Arizona, USA

Kimberly T. Tait, Veronica DiCecco, Mark A. Cooper, Neil A. Ball and Frank C. Hawthorne*

E-mail: frank_hawthorne@umanitoba.ca

New structure type

Trigonal: *P*312; structure determined

a = 5.0441(7), c = 9.421(2) Å

4.363(55), 3.959(11), 3.193(100), 2.521(55), 2.187(17), 1.978(28), 1.715(20), 1.555(35)

Type material is deposited in the collections of the Department of Natural History, Royal Ontario Museum, 100 Queens Park, Toronto, Ontario M5S 2C6, Canada, catalogue number M56436

How to cite: Tait, K.T., DiCecco, V., Cooper, M.A., Ball, N.A. and Hawthorne. F.C. (2014) Backite, IMA 2013-113. CNMNC Newsletter No. 19, February 2014, page 169; *Mineralogical Magazine*, **78**, 165–170.

IMA No. **2013-114**

Kitagohaite

Pt_7Cu

Lubero region, Democratic Republic of the Congo

Alexandre Raphael Cabral*, Roman Skalá, Anna Vymazalová, Anna Kallistová, Bernd Lehmann, Jacques Jedwab and Tamara Sidorinová

E-mail: alexandre.cabral@tu-clausthal.de

Known synthetic analogue

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

a = 7.7867(4) Å

3.871(3), 2.348(3), 2.246(100), 1.948(8), 1.377(77), 1.174(27), 1.123(31), 0.893(13)

Type material is deposited in the collections of "Geosammlung", Technical University of Clausthal, D-38678 Clausthal-Zellerfeld, Germany, catalogue number 11331

How to cite: Cabral, A.R., Skalá, R., Vymazalová, A., Kallistová, A., Lehmann, B., Jedwab, J. and Sidorinová, T. (2014) Kitagohaite, IMA 2013-114. CNMNC Newsletter No. 19, February 2014, page 169; *Mineralogical Magazine*, **78**, 165–170.

IMA No. **2013-115**

Lukkulaisvaaraite

$Pd_{14}Ag_2Te_9$

Lukkulaisvaara layered intrusion, northern Russian Karelia, Russia (66°19′21′′N, 30°49′50′′E)

Anna Vymazalová, Tatiana L. Grokhovskaya, František Laufek and Victor Rassulov

E-mail: anna.vymazalova@geology.cz

New structure type

Tetragonal: *I*4/*m*; structure determined

a = 8.9599(6), c = 11.822(1) Å

2.8323(58), 2.8088(92), 2.5542(66), 2.4312(41), 2.1367(57), 2.1015(52), 2.0449(100), 2.0031(63)

Type material is deposited in the collections of the Department of Mineralogy of The National Museum, Prague, Czech Republic, catalogue number P1P 15/2013

How to cite: Vymazalová, A., Grokhovskaya, T.L., Laufek, F. and Rassulov, V. (2014) Lukkulaisvaaraite, IMA 2013-115. CNMNC Newsletter No. 19, February 2014, page 169; *Mineralogical Magazine*, **78**, 165–170.

IMA No. **2013-116**

Kononovite

$NaMg(SO_4)F$

Arsenatnaya 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 asl)

Igor V. Pekov*, Maria G. Krzhizhanovskaya, Vasiliy O. Yapaskurt, Dmitriy I. Belakovskiy, Nikita V. Chukanov, Inna S. Lykova and Evgeny G. Sidorov

E-mail: igorpekov@mail.ru

Isostructural with phosphates and arsenates of the tilasite/durangite group, and with silicates of the titanite group

Monoclinic: *C*2/*c*

a = 6.662(2), b = 8.584(3), c = 7.035(2) Å, β = 114.06(3)°

4.766(38), 3.567(33), 3.233(82), 3.210(55), 3.041(100), 2.589(53), 2.571(38), 2.269(33)

Type material is deposited in the collections of the Fersman Mineralogical Museum of the Russian Academy of Sciences, Moscow, Russia, registration number 4452/1

How to cite: Pekov, I.V., Krzhizhanovskaya, M.G., Yapaskurt, V.O., Belakovskiy, D.I., Chukanov, N.V., Lykova, I.S. and Sidorov,

E.G. (2014) Kononovite, IMA 2013-116. CNMNC Newsletter No. 19, February 2014, page 169; *Mineralogical Magazine*, **78**, 165–170.

IMA No. **2013-117**

Nickeltsumcorite

$Pb(Ni,Fe^{3+})_2(AsO_4)_2(H_2O,OH)_2$

Km-3 Mine, Lavrion District, Attikí Prefecture, Greece

Igor V. Pekov*, Nikita V. Chukanov, Dmitry A. Varlamov, Dmitriy I. Belakovskiy, Panagiotis Voudouris, Athanassios Katerinopoulos and Andreas Magganas

E-mail: igorpekov@mail.ru

Tsumcorite group

Monoclinic: *C*2/*m*

a = 9.124(8), *b* = 6.339(3), *c* = 7.567(7) Å, β = 115.19(6)º

4.64(100), 4.47(41), 3.238(82), 3.008(60), 2.859(41), 2.730(54), 2.545(79), 2.505(61)

Type material is deposited in the collections of the Fersman Mineralogical Museum of the Russian Academy of Sciences, Moscow, Russia, registration number 4391/1

How to cite: Pekov, I.V., Chukanov, N.V., Varlamov, D.A., Belakovskiy, D.I., Voudouris, P., Katerinopoulos, A. and Magganas, A. (2014) Nickeltsumcorite, IMA 2013-117. CNMNC Newsletter No. 19, February 2014, page 170; *Mineralogical Magazine*, **78**, 165–170.

IMA No. **2013-118**

Natropalermoite

$Na_2SrAl_4(PO_4)_4(OH)_4$

Palermo No. 1 mine, Groton, Grafton County, New Hampshire, USA

Benjamin N. Schumer*, Hexiong Yang and Robert T. Downs

E-mail: bschumer@email.arizona.edu

The sodium analogue of palermoite

Orthorhombic: *Imcb*; structure determined

a = 11.4849(6), *b* = 16.2490(7), *c* = 7.2927(4) Å

4.907(68), 4.689(45), 3.327(48), 3.128(100), 3.078(45), 2.636(35), 2.453(38), 2.174(35)

Type material is deposited in the collections of the Mineral Museum of the University of Arizona, Tucson, Arizona, USA, catalogue number 19735, and the RRUFF Project, deposition number R130092

How to cite: Schumer, B.N., Yang, H. and Downs, R.T. (2014) Natropalermoite, IMA 2013-118. CNMNC Newsletter No. 19, February 2014, page 170; *Mineralogical Magazine*, **78**, 165–170.

IMA No. **2013-119**

Ishiharaite

(Cu,Ga,Fe,In,Zn)S

Nueva Esperanza vein, Capillitas mine, Farallón Negro Mining District, Argentina (27º27′S, 66º30′W)

María Florencia Márquez-Zavalía*, Miguel Ángel Galliski, Milan Drábek, Anna Vymazalová, Yasushi Watanabe, Hiroyasu Murakami and Heinz-Jürgen Bernhardt

E-mail: mzavalia@mendoza-conicet.gov.ar

Sphalerite structure type

Cubic: $F\bar{4}3m$

a = 5.368(1) Å

3.096(100), 2.684(20), 1.898(60), 1.620(40), 1.344(10), 1.231(10), 1.097(15), 1.035(10)

Type material is deposited in the collections of the Museo de Mineralogía "Alfred Stelzner", Universidad Nacional de Córdoba, Córdoba, Argentina, catalogue number 3280

How to cite: Márquez-Zavalía, M.F., Galliski, M.Á., Drábek, M., Vymazalová, A., Watanabe, Y., Murakami, H. and Bernhardt, H.-J. (2014) Ishiharaite, IMA 2013-119. CNMNC Newsletter No. 19, February 2014, page 170; *Mineralogical Magazine*, **78**, 165–170.

NOMENCLATURE PROPOSALS APPROVED IN JANUARY 2014

IMA No. **2011-096**

The originally approved name for the approved mineral was subsequently withdrawn. The name tangdanite, after the type locality, has been approved by IMA CNMNC.