



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

## NEWSLETTER 40

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### New minerals and nomenclature modifications approved in 2017

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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.**

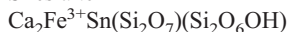
NO OTHER INFORMATION WILL BE RELEASED BY THE COMMISSION

**NEW MINERAL PROPOSALS APPROVED IN  
OCTOBER 2017**

CNMNC Newsletter No. 40, December 2017, page 1578; *Mineralogical Magazine*, **81**, 1577–1581.

**IMA No. 2017-064**

Silesiaite



In a pegmatite of the Karkonosze granite, Szklarska Poręba Huta quarry, Lower Silesia, Poland (50.82778 N, 15.48944 E)

Adam Pieczka\*, Chi Ma, George R. Rossman, R. James Evans, Lee A. Groat and Bożena Gołębiowska

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

The  $\text{Fe}^{3+}$  analogue of kristiansenite

Triclinic:  $C1$

$a = 10.028(1)$ ,  $b = 8.408(1)$ ,  $c = 13.339(2)$  Å,

$\alpha = 90.01(1)$ ,  $\beta = 109.10(1)$ ,  $\gamma = 90.00(1)^\circ$

9.147(100), 8.408(12), 6.607(64), 5.195(6),

4.413(10), 3.312(7), 3.151(12), 3.095(9)

Type material is deposited in the collections of the Mineralogical Museum, University of Wrocław, Cybulskiego 30, 50-205 Wrocław, Poland, catalogue number MMWr IV7929

How to cite: Pieczka, A., Ma, C., Rossman, G.R., Evans, R.J., Groat, L.A. and Gołębiowska, B. (2017) Silesiaite, IMA 2017-064. CNMNC Newsletter No. 40, December 2017, page 1578; *Mineralogical Magazine*, **81**, 1577–1581.

**IMA No. 2017-065**

Meitnerite



Green Lizard Mine, White Canyon mining district, San Juan Co., Utah, USA (37°34'37.10" N, 110°17'52.80" W)

Anthony R. Kampf\*, Jakub Plášil, Barbara P. Nash and Joe Marty

\*E-mail: akampf@nhm.org

Structurally related to johannite

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

$a = 6.7964(2)$ ,  $b = 8.0738(3)$ ,  $c = 9.2997(7)$  Å,

$\alpha = 113.284(8)$ ,  $\beta = 99.065(7)$ ,  $\gamma = 105.289(7)^\circ$

7.15(100), 6.36(30), 5.85(36), 5.038(21), 3.569

(19), 3.451(18), 3.340(20), 3.075(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 66623

How to cite: Kampf, A.R., Plášil, J., Nash, B.P. and Marty, J. (2017) Meitnerite, IMA 2017-065.

**IMA No. 2017-066**

Marchettiite



SW slope of Mount Cervandone, Devero valley, Baceno, Verbano-Cusio-Ossola, Piedmont, Italy  
Alessandro Guastoni, Fabrizio Nestola, Paolo Gentile, Federico Zorzi, Sergio Andò, Alessandra Lorenzetti and Vittorio Mattioli

\*E-mail: alessandro.guastoni@unipd.it

Known synthetic analogue

Triclinic:  $P\bar{1}$  or  $P1$

$a = 3.6533(2)$ ,  $b = 10.2046(7)$ ,  $c = 10.5837(7)$  Å,

$\alpha = 113.809(5)$ ,  $\beta = 91.313(8)$ ,  $\gamma = 92.44(1)^\circ$

9.784(50), 8.663(80), 5.659(100), 4.614(50),

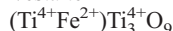
3.443(100), 3.241(70), 3.158(100), 3.004(60)

Type material is deposited in the collections of the Museum of Mineralogy, University of Padova, Via Giotto 1, I-35122, Padova, Italy, catalogue number MMP M17892

How to cite: Guastoni, A., Nestola, F., Gentile, P., Zorzi, F., Andò, S., Lorenzetti, A. and Mattioli, V. (2017) Marchettiite, IMA 2017-066. CNMNC Newsletter No. 40, December 2017, page 1578; *Mineralogical Magazine*, **81**, 1577–1581.

**IMA No. 2017-068**

Vestaite



NWA 8003 meteorite, fall in an unknown locality in Morocco

Run-Lian Pang, Dennis Harries, Kilian Pollok, Ai-Cheng Zhang\* and Falko Langenhorst\*

\*E-mail: aczhang@nju.edu.cn, falko.langenhorst@uni-jena.de

The  $\text{Ti}^{4+}$ - $\text{Fe}^{2+}$  analogue of schreyerite

Monoclinic:  $C2/c$

$a = 17.03(2)$ ,  $b = 4.98(1)$ ,  $c = 7.08(1)$  Å,

$\beta = 106.3(2)^\circ$

4.084(44), 3.398(60), 2.880(77), 2.732(100),

2.425(42), 1.705(38), 1.694(50), 1.643(48),

Type material is deposited in the mineralogical collections of the Friedrich Schiller University Jena, Sellierstrasse 6, 07745 Jena, Germany, catalogue numbers 42073 and 42074

How to cite: Pang, R.-L., Harries, D., Pollok, K., Zhang, A.-C. and Langenhorst, F. (2017) Vestaite,

IMA 2017-068. CNMNC Newsletter No. 40, December 2017, page 1578; *Mineralogical Magazine*, **81**, 1577–1581.

December 2017, page 1579; *Mineralogical Magazine*, **81**, 1577–1581.

**IMA No. 2017-070**

Hjalmarite  
 $\text{Na}(\text{NaMn})\text{Mg}_5\text{Si}_8\text{O}_{22}(\text{OH})_2$   
 Långban Fe-Mn-(Ba-As-Pb-Sb) deposit,  
 Filipstad district, Värmland, Sweden (59.86°N,  
 14.26°E, 215 m a.s.l.)  
 Dan Holtstam\*, Fernando Cámara, Henrik  
 Skogby and Andreas Karlsson  
 \*E-mail: dan.holtstam@vr.se  
 Amphibole supergroup  
 Monoclinic:  $C2/m$ ; structure determined  
 $a = 9.9113(3)$ ,  $b = 18.1361(4)$ ,  $c = 5.2831(5)$ ,  
 $\beta = 103.658(5)^\circ$   
 8.50(44), 3.302(40), 3.164(100), 2.837(50),  
 2.727(30), 2.183(17), 1.670(34), 1.447(32)  
 Type material is deposited in the mineralogical  
 collections of the Department of Geosciences,  
 Swedish Museum of Natural History, Box 50007,  
 SE-10405 Stockholm, Sweden, collection  
 number NRM #g14150  
 How to cite: Holtstam, D., Cámara, F., Skogby,  
 H. and Karlsson, A. (2017) Hjalmarite, IMA  
 2017-070. CNMNC Newsletter No. 40,  
 December 2017, page 1579; *Mineralogical  
 Magazine*, **81**, 1577–1581.

**IMA No. 2017-071**

Dekatriasartorite  
 $\text{TiPb}_{58}\text{As}_{97}\text{S}_{204}$   
 Lengenbach quarry, Binntal, Wallis, Switzerland  
 (46°21'54"N, 8°13'15"E)  
 Dan Topa\*, Berthold Stoeger, Emil Makovicky  
 and Chris Stanley  
 \*E-mail: dan.topa@nhm-wien.ac.at  
 Sartorite homologous series  
 Monoclinic:  $P2_1/c$ ; structure determined  
 $a = 54.576(5)$ ,  $b = 7.8947(6)$ ,  $c = 20.102(16)$  Å,  
 $\beta = 78.153(1)^\circ$   
 9.84(58), 3.870(69), 3.522(100), 3.464(52),  
 2.966(64), 2.955(87), 2.762(71), 2.758(70)  
 Type material is deposited in the reference  
 collections of the Naturhistorisches Museum  
 Wien, Burggring 7, A-1010 Wien, Austria, cata-  
 logue number N 9863  
 How to cite: Topa, D., Stoeger, B., Makovicky,  
 E. and Stanley, C. (2017) Dekatriasartorite, IMA  
 2017-071. CNMNC Newsletter No. 40,

**IMA No. 2017-072**

Oberthürite  
 $\text{Rh}_3\text{Ni}_{32}\text{S}_{32}$   
 Marathon deposit, Coldwell Complex, Ontario,  
 Canada (48°48'7"N, 86°18'35"W)  
 Andrew M. McDonald\*, Ingrid M. Kjarsgaard,  
 Kirk C. Ross, Doreen E. Ames, Louis J. Cabri and  
 David J. Good  
 \*E-mail: amcdonald@laurentian.ca  
 Pentlandite group  
 Cubic:  $F\bar{4}3m$ ; structure determined  
 $a = 10.066(5)$  Å  
 3.060(100), 2.929(18), 1.952(39), 1.792(74),  
 1.543(9), 1.318(15), 1.031(30), 0.976(10)  
 Type material is deposited in the mineralogical  
 collections of the Canadian Museum of Nature,  
 Gatineau, Quebec, Canada, catalogue number  
 87251  
 How to cite: McDonald, A.M., Kjarsgaard, I.M.,  
 Ross, K.C., Ames, D.E., Cabri, L.J. and Good, D.  
 J. (2017) Oberthürite, IMA 2017-072. CNMNC  
 Newsletter No. 40, December 2017, page 1579;  
*Mineralogical Magazine*, **81**, 1577–1581.

**IMA No. 2017-073**

Ammoniozippeite  
 $(\text{NH}_4)_2[(\text{UO}_2)_2(\text{SO}_4)\text{O}_2] \cdot \text{H}_2\text{O}$   
 Blue Lizard Mine, Red Canyon, White Canyon  
 mining district, San Juan Co., Utah, USA (37°33'  
 26"N, 110°17'44"W); Burro mine, Slick Rock  
 district, San Miguel Co., Colorado, USA (38°2'  
 42"N 108°53'23"W)  
 Anthony R. Kampf\*, Jakub Plášil, Travis  
 A. Olds, Barbara P. Nash and Joe Marty  
 \*E-mail: akampf@nhm.org  
 The  $(\text{NH}_4)$  analogue of zippeite  
 Orthorhombic:  $Ccmb$ ; structure determined  
 $a = 8.7944(3)$ ,  $b = 14.3296(7)$ ,  $c = 17.172(1)$  Å  
 7.17(100), 4.270(13), 3.670(14), 3.580(21),  
 3.489(42), 3.138(63), 1.750(14), 1.697(18)  
 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  
 66625 (Burro - holotype) and 66626 (Blue Lizard  
 - cotype)  
 How to cite: Kampf, A.R., Plášil, J., Olds, T.A.,  
 Nash, B.P. and Marty, J. (2017)

Ammoniozippeite, IMA 2017-073. CNMNC Newsletter No. 40, December 2017, page 1579; *Mineralogical Magazine*, **81**, 1577–1581.

#### IMA No. 2017-074

Hydroxynatropyrochlore  
(Na,Ca,Ce)<sub>2</sub>Nb<sub>2</sub>O<sub>6</sub>(OH)  
Phoscorite-carbonatite pipe, Kovdor massif,  
Murmansk Region, Russia

Gregory Y. Ivanyuk, Victor N. Yakovenchuk,  
Taras L. Panikorovskii, Nataliya Konoplyova,  
Yakov A. Pakhomovsky, Ayya V. Bazai, Vladimir  
N. Bocharov and Sergey V. Krivovichev

\*E-mail: s.krivovichev@spbu.ru

Pyrochlore supergroup

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

$a = 10.3276(5) \text{ \AA}$

5.96(47), 3.110(30), 2.580(100), 2.368(19),

1.987(6), 1.826(25), 1.746(3), 1.556(14)

Type material is deposited in the collections of the  
Mineralogical Museum, Saint-Petersburg State  
University, University Emb. 7/9, St. Petersburg  
199034, Russia, catalogue number 1/19679

How to cite: Ivanyuk, G.Y., Yakovenchuk, V.N.,  
Panikorovskii, T.L., Konoplyova, N.,  
Pakhomovsky, Y.A., Bazai, A.V., Bocharov, V.N.  
and Krivovichev, S.V. (2017)

Hydroxynatropyrochlore, IMA 2017-074.  
CNMNC Newsletter No. 40, December 2017, page  
1580; *Mineralogical Magazine*, **81**, 1577–1581.

#### IMA No. 2017-075

Hydroxylpyromorphite

Pb<sub>5</sub>(PO<sub>4</sub>)<sub>3</sub>(OH)

Copps mine, Gogebic Co., Michigan, USA (46°  
27'24"N, 89°39'38"W)

Travis A. Olds\*, Shawn M. Carlson, Anthony  
R. Kampf, John Rakovan, Cullen Laughlin-Yurs,  
Peter C. Burns and Owen P. Mills

\*E-mail: tolds@nd.edu

Apatite supergroup

Hexagonal:  $P6_3/m$ ; structure determined

$a = 9.787(1)$ ,  $c = 7.307(1) \text{ \AA}$

4.079(18), 3.359(29), 3.207(21), 2.934(100),

2.035(21), 1.942(27), 1.834(25), 1.592(17)

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 66627

How to cite: Olds, T.A., Carlson, S.M., Kampf,  
A.R., Rakovan, J., Laughlin-Yurs, C., Burns, P.C.

and Mills, O.P. (2017) Hydroxylpyromorphite,  
IMA 2017-075. CNMNC Newsletter No. 40,  
December 2017, page 1580; *Mineralogical  
Magazine*, **81**, 1577–1581.

### NEW MINERAL PROPOSALS APPROVED IN NOVEMBER 2017

#### IMA No. 2017-076

Manganflurlite

ZnMn<sub>3</sub><sup>2+</sup>Fe<sup>3+</sup>(PO<sub>4</sub>)<sub>3</sub>(OH)<sub>2</sub>(H<sub>2</sub>O)<sub>7</sub>·2H<sub>2</sub>O

Hagendorf-Süd pegmatite, Hagendorf, Oberpfalz,  
Bavaria, Germany (49°39'1"N, 12°27'35"E)

Anthony R. Kampf\*, Ian E. Grey, Colin  
M. MacRae and Erich Keck

\*E-mail: akampf@nhm.org

The Mn analogue of flurlite

Monoclinic:  $P2_1/m$ ; structure determined

$a = 6.4546(8)$ ,  $b = 11.1502(9)$ ,  $c = 13.1630(10) \text{ \AA}$ ,  
 $\beta = 99.829(5)^\circ$

12.89(100), 8.43(38), 6.14(22), 5.57(28), 4.241  
(26), 3.206(29), 2.776(95), 2.713(27)

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  
66682

How to cite: Kampf, A.R., Grey, I.E., MacRae,  
C.M. and Keck, E. (2017) Manganflurlite, IMA  
2017-076. CNMNC Newsletter No. 40,  
December 2017, page 1580; *Mineralogical  
Magazine*, **81**, 1577–1581.

#### IMA No. 2017-077

Ammoniomathesiusite

(NH<sub>4</sub>)<sub>5</sub>(UO<sub>2</sub>)<sub>4</sub>(SO<sub>4</sub>)<sub>4</sub>(VO<sub>5</sub>)·4H<sub>2</sub>O

Burro mine, Slick Rock district, San Miguel Co.,  
Colorado, USA (38°2'42"N 108°53'23"W)

Anthony R. Kampf\*, Jakub Plášil, Barbara  
P. Nash and Joe Marty

\*E-mail: akampf@nhm.org

The (NH<sub>4</sub>) analogue of mathesiusite

Tetragonal:  $P4/n$ ; structure determined

$a = 14.9405(9)$ ,  $c = 7.1020(5) \text{ \AA}$

10.57(46), 7.10(62), 6.41(100), 4.71(27), 3.575  
(25), 3.460(26), 3.340(35), 3.226(44)

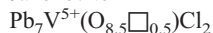
Type material is deposited in the mineralogical  
collections of the Natural History Museum of Los  
Angeles County, 900 Exposition Boulevard, Los

Angeles, CA 90007, USA, catalogue number 67248 (holotype), 67249, 67250 and 67251 (cotype)

How to cite: Kampf, A.R., Plášil, J., Nash, B.P. and Marty, J. (2017) Ammoniomathesiusite, IMA 2017-077. CNMNC Newsletter No. 40, December 2017, page 1580; *Mineralogical Magazine*, **81**, 1577–1581.

#### IMA No. 2017-079

Janchevite



Kombat mine, Grootfontein district, Otjozondjupa region, Namibia (19°46'59"S, 18°1'0"E)

Nikita V. Chukanov\*, Diana O. Nekrasova, Oleg I. Siidra, Yury S. Polekhovskiy and Igor V. Pekov

\*E-mail: nikchukanov@yandex.ru

The V analogue of asisite

Tetragonal:  $I4/mmm$

$a = 3.9591(5)$ ,  $c = 22.6897(3)$  Å

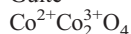
3.889(24), 3.501(31), 2.979(86), 2.833(25), 2.794(100), 1.992(26), 1.988(49), 1.649(46)

Type material is deposited in the collections of the Fersman Mineralogical Museum, Russian Academy of Sciences, Moscow, Russia, registration number 5105/1

How to cite: Chukanov, N.V., Nekrasova, D.O., Siidra, O.I., Polekhovskiy, Y.S. and Pekov, I.V. (2017) Janchevite, IMA 2017-079. CNMNC Newsletter No. 40, December 2017, page 1581; *Mineralogical Magazine*, **81**, 1577–1581.

#### IMA No. 2017-080

Guite



Sicomines copper-cobalt mine, ca. 11 km SW of Kolwezi City, Democratic Republic of Congo (10°44'17.4"S, 25°22'50.4"E)

Zhilan Lei, Xinghai Chen, Jianxiong Wang\*, Jigui Zhang, Yingchun Huang, Zhiyu Lu and Fangfang Du

\*E-mail: wangerlang@163.com

Spinel supergroup

Cubic:  $Fd3m$

$a = 8.0848(1)$  Å

2.862(18), 2.440(100), 2.335(10), 2.023(25), 1.556(26), 1.430(38), 1.052(10), 0.825(9)

Type material is deposited in the mineralogical collections of the Geological Museum of China, 16 Yangrou Hutong, Xisi, Beijing 100031, People's Republic of China, catalogue number M13711

How to cite: Lei, Z., Chen, X., Wang, J., Zhang, J., Huang, Y., Lu, Z. and Du, F. (2017) Guite, IMA 2017-080. CNMNC Newsletter No. 40, December 2017, page 1581; *Mineralogical Magazine*, **81**, 1577–1581.

#### IMA No. 2017-081

Wuyanzhiite



Bofang copper mine (–65 m level), ca. 40 km S of Hengyang City, Hunan Province, China (26°32'24.4"N, 112°26'53.5"E)

Xiangping Gu\*, Xiangyang Shi, Hexiong Yang, Anhuai Lu, Yongjun Shao, Qian Chen and Zhongfa Liu

\*E-mail: guxp2004@163.com

A dimorph of chalcocite

Tetragonal:  $P4_32_1$

$a = 4.0008(1)$ ,  $c = 11.2671(9)$  Å

2.833(24), 2.746(100), 2.304(97), 2.262(28), 1.998(62), 1.967(29), 1.887(26), 1.704(28)

Type material is deposited in the mineralogical collections of the Geological Museum of China, 16 Yangrou Hutong, Xisi, Beijing 100031, People's Republic of China, catalogue number M13712

How to cite: Gu, X., Shi, X., Yang, H., Lu, A., Shao, Y., Chen, Q. and Liu, Z. (2017) Wuyanzhiite, IMA 2017-081. CNMNC Newsletter No. 40, December 2017, page 1581; *Mineralogical Magazine*, **81**, 1577–1581.

### NOMENCLATURE PROPOSALS APPROVED IN OCTOBER 2017

#### Gatelite supergroup

A new classification and nomenclature scheme has been approved for the minerals of the gatelite supergroup. The supergroup is divided into three groups: gatelite group, västmanlandite group, alnaperbøeite group.

#### Schoonerite group

A new classification and nomenclature scheme has been approved for the minerals of the schoonerite group. Currently the group includes three mineral species: schoonerite, wilhelmgümbelite, and schmidite.