

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

## NEWSLETTER 41

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### New minerals and nomenclature modifications approved in 2017 and 2018

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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.**

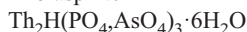
NO OTHER INFORMATION WILL BE RELEASED BY THE COMMISSION

<https://doi.org/10.1180/mgm.2018.60>

NEW MINERAL PROPOSALS APPROVED IN  
DECEMBER 20172018, page 230; *Mineralogical Magazine*, **82**,  
229–233.

## IMA No. 2017-085

Thorasphite

Elsmore Tin Mine, Elsmore, New South Wales,  
Australia (151°17'E, 29°48'S)

Peter Elliott\*

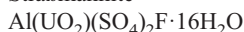
\*E-mail: [peter.elliott@adelaide.edu.au](mailto:peter.elliott@adelaide.edu.au)

New structure type

Orthorhombic: *Pbcn*; structure determined $a = 13.673(3)$ ,  $b = 9.925(2)$ ,  $c = 10.222(2)$  Å  
8.007(100), 5.127(57), 4.934(71), 4.320(24),  
4.251(38), 3.225(22), 3.189(27), 2.926(27)Type material is deposited in the mineralogical  
collections of the South Australian Museum,  
North Terrace, Adelaide, South Australia 5000,  
Australia, registration number G34702How to cite: Elliott, P. (2018) Thorasphite, IMA  
2017-085. CNMNC Newsletter No. 41, February  
2018, page 230; *Mineralogical Magazine*, **82**,  
229–233.

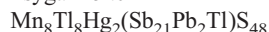
## IMA No. 2017-086

Straßmannite

Green Lizard mine, White Canyon mining  
district, San Juan Co., Utah, USA (37°  
34'37.10"N, 110°17'52.80"W); Markey mine,  
White Canyon mining district, San Juan Co.,  
Utah, USA (37°32'57"N, 110°18'08"W)Anthony R. Kampf\*, Jakub Plášil, Barbara  
P. Nash and Joe Marty\*E-mail: [akampf@nhm.org](mailto:akampf@nhm.org)Structurally related to leydetite, magnesioleyde-  
tite and wetherilliteMonoclinic: *C2/c*; structure determined $a = 11.0187(5)$ ,  $b = 8.3284(3)$ ,  $c = 26.673(2)$  Å,  
 $\beta = 97.426(7)^\circ$   
13.24(100), 6.61(53), 6.11(26), 5.74(35), 4.494  
(22), 3.324(38), 3.265(20), 3.138(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 67264 (GL), 67265 (GL), 67266 (M),  
and 67267 (M)How to cite: Kampf, A.R., Plášil, J., Nash, B.P.  
and Marty, J. (2018) Straßmannite, IMA 2017-  
086. CNMNC Newsletter No. 41, February

## IMA No. 2017-088

Tsygankoite

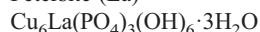
Vorontsovskoe deposit, 0.5 km W of the settle-  
ment of Vorontsovka, ca. 13 km S of  
Krasnotur'insk, Sverdlovskaya Oblast',  
Northern Urals, Russia (59°39'5"N, 60°12'56"E)  
Anatoly V. Kasatkin\*, Emil Makovicky, Jakub  
Plášil, Radek Škoda, Atali A. Agakhanov and  
Vladimir Y. Karpenko\*E-mail: [anatoly.kasatkin@gmail.com](mailto:anatoly.kasatkin@gmail.com)

New structure type

Monoclinic: *C2/c*; structure determined $a = 21.362(4)$ ,  $b = 3.858(1)$ ,  $c = 27.135(4)$  Å,  $\beta =$   
106.94(1)°  
3.587(100), 3.391(68), 3.353(70), 3.204(88),  
2.858(64), 2.841(72), 2.805(60), 2.786(99)Type material is deposited in the mineralogical  
collections of the Fersman Mineralogical  
Museum, Russian Academy of Sciences,  
Moscow, Russia, registration number 5018/1How to cite: Kasatkin, A.V., Makovicky, E.,  
Plášil, J., Škoda, R., Agakhanov, A.A. and  
Karpenko, V.Y. (2018) Tsygankoite, IMA 2017-  
088. CNMNC Newsletter No. 41, February  
2018, page 230; *Mineralogical Magazine*, **82**,  
229–233.

## IMA No. 2017-089

Petersite-(La)

Detani River, Ohgurusu, Kiwa, Kumano, Mie  
Prefecture, Japan (33°52'57"N, 135°55'46"E)  
Daisuke Nishio-Hamane\*, Masayuki Ohnishi,  
Norimasa Shimobayashi, Koichi Momma,  
Ritsuro Miyawaki and Sachio Inaba\*E-mail: [hamane@issp.u-tokyo.ac.jp](mailto:hamane@issp.u-tokyo.ac.jp)

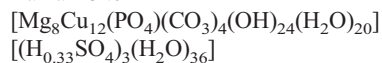
Mixite group

Hexagonal: *P6<sub>3</sub>/m*; structure determined $a = 13.410(5)$ ,  $c = 5.881(4)$  Å  
11.621(100), 4.393(36), 3.519(29), 3.344(15),  
2.907(21), 2.693(14), 2.534(14), 2.444(73)Type material is deposited in the mineralogical  
collections of the National Museum of Nature and  
Science, Tsukuba, Ibaraki 305-0005, Japan,  
specimen number NSM-M45621How to cite: Nishio-Hamane, D., Ohnishi, M.,  
Shimobayashi, M., Momma, K., Miyawaki,

R. and Inaba, S. (2018) Petersite-(La), IMA 2017-089. CNMNC Newsletter No. 41, February 2018, page 230; *Mineralogical Magazine*, **82**, 229–233.

IMA No. **2017-090**

Ramazzoite



Monte Ramazzo mine, Genova, Liguria, Italy (44°28'5"N, 8°51'33"E)

Anthony R. Kampf\*, George R. Rossman, Chi Ma, Donato Belmonte, Cristian Biagioni, Fabrizio Castellaro and Luigi Chiappino

\*E-mail: [akampf@nhm.org](mailto:akampf@nhm.org)

New structure type

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

$a = 13.389(1) \text{ \AA}$

13.37(10), 9.43(24), 4.224(8), 4.043(11), 3.252(9), 2.857(9), 2.730(5), 2.668(5)

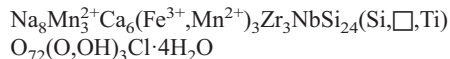
Cotype material is deposited in the mineralogical collections of the Natural History Museum of Los Angeles County, 900 Exposition Boulevard, Los Angeles, CA 90007, USA, catalogue numbers 66691 and 66692

How to cite: Kampf, A.R., Rossman, G.R., Ma, C., Belmonte, D., Biagioni, C., Castellaro, F. and Chiappino, L. (2018) Ramazzoite, IMA 2017-090. CNMNC Newsletter No. 41, February 2018, page 231; *Mineralogical Magazine*, **82**, 229–233.

## NEW MINERAL PROPOSALS APPROVED IN JANUARY 2018

IMA No. **2017-092**

Siudaite



Eveslogchorr Mt., Astrophyllitovyi Stream valley, Khibiny alkaline massif, Kola Peninsula, Russia (67°40'02"N, 33°55'28"E)

Nikita V. Chukanov\*, Ramiza K. Rastsvetaeva, Łukasz Kruszewski, Sergey M. Aksenov, Vyacheslav S. Rusakov, Sergey N. Britvin and Svetlana A. Vozchikova

\*E-mail: [nikchukanov@yandex.ru](mailto:nikchukanov@yandex.ru)

Eudialyte group

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

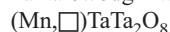
$a = 14.188(3)$ ,  $c = 29.831(7) \text{ \AA}$

6.38(60), 5.68(47), 4.29(55), 3.389(47), 3.191(63), 2.963(100), 2.843(99), 2.577(49)

Type material is deposited in the collections of the Mineralogical and Petrographical Section, Museum of Earth PAS (Muzeum Ziemi Polskiej Akademii Nauk), aleja Na Skarpie 20/26, PL-00-488 Warsaw, Poland, catalogue no. MZI III/1/541  
How to cite: Chukanov, N., Rastsvetaeva, R.K., Kruszewski, Ł., Aksenov, S.M., Rusakov, V.S., Britvin, S.N. and Vozchikova, S.A. (2018) Siudaite, IMA 2017-092. CNMNC Newsletter No. 41, February 2018, page 231; *Mineralogical Magazine*, **82**, 229–233.

IMA No. **2017-095**

Tantalowodginite



Emmons pegmatite dyke, exposed on Uncle Tom Mountain, Greenwood, Oxford Co., Maine, USA (44°19'24"N, 70°41'41"E)

Sarah L. Hanson, Alexander U. Falster, William B. Simmons, Raymond Sprague, Pietro Vignola\*, Nicola Rotiroti, Sergio Andó and Frédéric Hatert

\*E-mail: [pietro.vignola@idpa.cnr.it](mailto:pietro.vignola@idpa.cnr.it)

Wodginite group

Monoclinic:  $C2/c$ ; structure determined

$a = 9.542(1)$ ,  $b = 11.488(2)$ ,  $c = 5.128(1) \text{ \AA}$ ,  $\beta = 91.13(1)^\circ$

7.332(20), 4.741(20), 3.838(30), 3.667(100), 3.000(100), 2.957(100), 2.883(30), 1.778(30)

Type material is deposited in the mineralogical collections of the Maine Mineral and Gem Museum, 99 Main Street, Bethel, Maine, USA, catalogue number MMGM-MP<sup>2</sup>-12-10-2016

How to cite: Hanson, S.L., Falster, A.U., Simmons, W.B., Sprague, R., Vignola, P., Rotiroti, N., Andó, S. and Hatert, F. (2018) Tantalowodginite, IMA 2017-095. CNMNC Newsletter No. 41, February 2018, page 231; *Mineralogical Magazine*, **82**, 229–233.

IMA No. **2017-096**

Pampaloite

AuSbTe

Pampalo mine (drill core 315, depth 71.50 m), 65 km E of Joensuu, 46 km N of Ilomantsi, Finland (62°59'11"N, 31°15'53"E)

Anna Vymazalová\*, Kari Kojonen, František Laufek, Bo Johanson, Chris J. Stanley, Jakub Plášil and Patricie Halodová

\*E-mail: [anna.vymazalova@geology.cz](mailto:anna.vymazalova@geology.cz)

New structure type

Monoclinic:  $C2/c$ ; structure determined

$a = 11.947(3)$ ,  $b = 4.481(1)$ ,  $c = 12.335(3)$  Å,  $\beta = 105.83(2)^\circ$

4.846(24), 3.825(18), 2.978(100), 2.968(50), 2.242(25), 2.144(55), 2.063(33), 1.789(18)

Type material is deposited in the mineralogical collections of the Natural History Museum, Cromwell Road, SW7 5BD London, UK, catalogue No. BM 2017,16

How to cite: Vymazalová, A., Kojonen, K., Laufek, F., Johanson, B., Stanley, C.J., Plášil, J. and Halodová, P. (2018) Pampaloite, IMA 2017-096. CNMNC Newsletter No. 41, February 2018, page 231; *Mineralogical Magazine*, **82**, 229–233.

#### IMA No. 2017-097

Sbacchiite

$\text{Ca}_2\text{AlF}_7$

In a fossil fumarole (1944 eruption,  $T \approx 80^\circ\text{C}$ ), Vesuvius volcano crater, Napoli, Italy

Italo Campostrini, Francesco Demartin\* and Massimo Russo

\*E-mail: [francesco.demartin@unimi.it](mailto:francesco.demartin@unimi.it)

Chemically related to carlhintzeite

Orthorhombic:  $Pnma$ ; structure determined

$a = 7.665(2)$ ,  $b = 6.993(1)$ ,  $c = 9.566(2)$  Å  
3.840(45), 3.563(85), 3.499(100), 2.899(55), 2.750(30), 2.281(20), 2.255(52), 2.173(36)

Type material is deposited in the reference collection of the Department of Chemistry, University of Milan, Via Golgi 19, I-20133 Milano, Italy, sample no. 2017-01

How to cite: Campostrini, I., Demartin, F. and Russo, M. (2018) Sbacchiite, IMA 2017-097. CNMNC Newsletter No. 41, February 2018, page 232; *Mineralogical Magazine*, **82**, 229–233.

#### IMA No. 2017-098

Paddlewheelite

$\text{MgCa}_5\text{Cu}_2(\text{UO}_2)_4(\text{CO}_3)_{12}(\text{H}_2\text{O})_{33}$

Klement vein, Svornost mine (5th level), Jáchymov district, Bohemia, Czech Republic ( $50^\circ22'21''\text{N}$ ,  $12^\circ54'42''\text{E}$ )

Travis A. Olds\*, Jakub Plášil, Anthony R. Kampf, Fabrice Dal Bo and Peter C. Burns

\*E-mail: [tolds@nd.edu](mailto:tolds@nd.edu)

New structure type

Monoclinic:  $Pc$ ; structure determined

$a = 22.052(4)$ ,  $b = 17.118(3)$ ,  $c = 19.354(3)$  Å,  
 $\beta = 90.474(2)^\circ$

11.12(100), 7.33(46), 6.42(30), 5.54(37), 4.823(33), 4.642(38), 4.215(34), 3.717(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 66696

How to cite: Olds, T.A., Plášil, J., Kampf, A.R., Bo, F. and Burns, P.C. (2018) Paddlewheelite, IMA 2017-098. CNMNC Newsletter No. 41, February 2018, page 232; *Mineralogical Magazine*, **82**, 229–233.

### NOMENCLATURE PROPOSALS APPROVED IN DECEMBER 2017

#### IMA 17-E – Bobdownsite discredited (and krásnoite redefined)

Proposal 17-E is accepted, and bobdownsite is discredited because it does not contain fluorine, which was its distinguishing characteristic as a new mineral. F-free bobdownsite is equivalent to the mineral whitlockite, although the phase probably lies along the whitlockite-merrillite join. Krásnoite is a valid mineral species, but it does not contain monofluorophosphate anions  $(\text{PO}_3\text{F})^{2-}$ . Instead, fluorine substitutes for hydroxyl groups that are bonded to aluminium, as shown by vibrational and  $^{19}\text{F}$  NMR spectroscopic data.

#### IMA 17-F – Redefinition of montbrayite

Proposal 17-F is accepted, and montbrayite is redefined. Its crystal-chemical formula becomes  $(\text{Au,Ag,Sb,Bi,Pb})_{23}(\text{Te,Sb,Bi,Pb})_{38}$ , instead of  $(\text{Au,Sb})_2\text{Te}_3$  as previously reported.

#### IMA 17-G – Redefinition of gabrielsonite

Proposal 17-G is accepted, and gabrielsonite is redefined as  $\text{PbFe}^{3+}(\text{As}^{3+}\text{O}_3)\text{O}$ , instead of  $\text{PbFe}^{2+}(\text{As}^{5+}\text{O}_4)(\text{OH})$ , previously reported. Indeed, the mineral is anhydrous, and contains iron almost exclusively in the trivalent state. Consequently, gabrielsonite does not belong to the descloizite supergroup.

**Rockbridgeite group**

A new classification and nomenclature scheme has been approved for the minerals of the rockbridgeite group. Currently the group includes three mineral species: rockbridgeite, frondelite, and plimerite, plus a number of potentially new mineral species.

**MINERAL APPROVAL WITHDRAWN**

IMA No. **2000-030a** Uvite

Approval for this mineral, which occurred in 2010 (see CNMNC Newsletter 2), has been withdrawn. Subsequent analytical work undertaken by the authors shows this material to be a potentially new oxy-tourmaline.