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

NEWSLETTER 3

New minerals and nomenclature modifications approved in 2010

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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**

**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**

**IMA No. 2010-005**

Fe₄(SO₄)O₂(OH)₆·2H₂O

Cava del Ferro-Trimpello, Fornovolasco, Vergemoli, Apuan Alps, Tuscany, Italy

Cristian Biagioni*, Elena Bonaccorsi and Paolo Orlandi

E-mail: biagioni@dst.unipi.it

New structure type; known synthetic phase

Monoclinic: C2/m; structure determined

\[ a = 16.085(2), \quad b = 3.054(1), \quad c = 10.929(2) \text{ Å}, \]

\[ \beta = 93.78(1)^\circ \]

8.03(s), 4.37(m), 3.989(m), 3.343(mw), 2.633(mw)

Type material is deposited in the Museo di Storia Naturale e del Territorio, University of Pisa, Via Roma 79, Calci (PI), Italy, catalogue number 19300

IMA No. 2010-006
Hermannroseite
CaCu(PO₄)(OH)
Tsumeb mine, Tsumeb, Namibia
Jochen Schlüter* and Dieter Pohl
*E-mail: Jochen.Schlueter@uni-hamburg.de
Phosphate analogue of conichalcite
Orthorhombic: P2₁2₁2₁; structure determined
a = 7.328(7), b = 5.769(6), c = 9.123(7) Å
5.710(56), 4.057(37), 3.663(21), 3.092(63),
2.854(29), 2.808(100), 2.571(73), 2.525(36)
Type material is deposited in the Mineralogical
Museum of the University of Hamburg, Hamburg, specimen number TS 637

IMA No. 2010-008
Cuprokalinite
Cu₃Cr₂S₄
Pereval marble quarry, near Studyanka, Irkutsk region, Siberia, Russia (51º37’ N 103º38’ E)
L.Z. Reznitsky, E.V. Sklyarov, Z.F. Ushchapovskaya, L.F. Suvorova, Yu.S. Polekhovsky, P. Dzierżanoski and Igor G. Barash*
*E-mail: garry@crust.irk.ru
Thiospinel
Cubic: Fd3m; known structure type
a = 9.814(2) Å
3.44(6), 2.94(10), 2.44(6), 1.884(9), 1.731(10),
1.133(6), 1.098(6), 1.030(6), 1.002(10)
Type material is deposited in the Fersman Mineralogical Museum of the Russian Academy of Sciences, specimen number 3886/1-3
How to cite: Reznitsky, L.Z., Sklyarov, E.V., Ushchapovskaya, Z.F., Suvorova, L.F., Polekhovsky, Yu.S., Dzierżanoski and Igor G. Barash*
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NOMENCLATURE APPROVAL IN MAY 2010
Nomenclature of the pyrochlore supergroup minerals
Re-examination and redefinition of pyrochlore end-members and potential new end-members and species has been undertaken, including a classification guide for naming future species.

Proposals approved in June 2010
IMA No. 2010-007
Greenwoodite
(Ba,V³⁺O)₂V³⁺₉(Fe³⁺,Fe²⁺)₂Si₂O₂²
Wigwam deposit, Akolkolex River area British Columbia, Canada (50º52’48’’N 117º58’04’’W)
Paul R. Bartholomew*, Franco Mancini, George E. Harlow, Christopher Cahill, Nicholas Deifel and Heinz-Jürgen Bernhardt
*E-mail: pbartholomew@newhaven.edu
New structure type
Trigonal: P31m1; structure determined
a = 5.7500(6), c = 14.4590(9) Å
2.925(100), 2.875(38), 2.672(23), 2.469(35),
2.354(28), 2.212(28), 1.669(26), 1.438(35)
Type material is deposited in the American Museum of Natural History, New York, catalogue number 109839

IMA No. 2010-009
Natropharmacoalumite
Na₄Al₄(AsO₄)(OH)₄·4H₂O
Maria Josefa mine, near Rodalquilar, Andalusia region, Spain (36º51’30”N 2º5’2”W)
Mike S. Rumsey*, Stuart J. Mills and John Spratt
*E-mail: m.rumsey@nhm.ac.uk
Pharmacosiderite group
Cubic: P43m; structure determined
a = 7.7280(3) Å
7.759(100), 4.473(40), 3.870(50), 3.459(6),
3.158(6), 2.736(6), 2.446(9), 2.331(12)
Type material is deposited in the Natural History Museum in London, specimen number BM 2009,161

IMA No. 2010-010
Naquite
FeSi
Orebody 31, Luobusa mining district, Qusong County, Tibet (29º5’N 92º5’E)
Shi Ni-cheng*, Li Guo-wu, Bai Wen-ji, Xiong Ming, Yang Jing-su, Fang Qing-son, Ma Zhe-sheng and Rong He
*E-mail: m.rumsey@nhm.ac.uk
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E-mail: shinicheng@vip.sina.com

Known structure type
Cubic: $P2_13$

$a = 4.486(4)$ Å

$3.174(43), 2.592(46), 2.249(25), 2.008(100),$

$1.831(69), 1.353(28), 1.199(38)$

Type material is deposited in the Institute of Geology, Chinese Academy of Geological Sciences, Beijing, People’s Republic of China, catalogue number 97-8-2


IMA No. 2010-011

Linzhiite

FeSi$_2$

Orebody 31, Luobusa mining district, Qusong County, Tibet (29º5'N 92º5'E)

Li Guo-wu*, Shi Ni-cheng, Bai Wen-ji, Xiong Ming, Fang Qing-son and Ma Zhe-sheng

*E-mail: liguowu@126.com

Known synthetic compound

Tetragonal: $P4/mmm$; structure determined

$a = 2.725(3), c = 5.202(10)$ Å

$5.150(95), 2.373(66), 1.895(61), 1.848(100),$

$1.776(11), 1.704(13), 1.340(15), 1.086(19)$

Type material is deposited in the Institute of Geology, Chinese Academy of Geological Sciences, Beijing, People’s Republic of China, catalogue number 97-6


IMA No. 2010-012

Coralloite

$\text{Mn}^2+\text{Mn}^3+(\text{AsO}_4)_2(\text{OH})_2\cdot4\text{H}_2\text{O}$

Monte Nero mine, Rocchetta Vara, La Spezia, Liguria, Italy

Athos Maria Callegari*, Massimo Boiocchi, Marco E. Ciriotti and Corrado Balestra

*E-mail: athosmaria.callegari@unipv.it

Related to arthurite and whitemoreite

Triclinic: $P1$

$a = 5.5828(7), b = 9.7660(13), c = 5.5455(7)$ Å,

$\alpha = 94.467(3), \beta = 111.348(2), \gamma = 93.85(2)º$

$9.710(100), 5.166(77), 5.136(80), 3.342(65),$

$3.324(34), 2.873(22), 2.631(23), 2.565(22)$

Type material is deposited in the Mineralogical Museum of the University of Pavia, catalogue number 2010/001


IMA No. 2010-014

Hydroniumpharmacosiderite

$(\text{H}_3\text{O})\text{Fe}_4(\text{AsO}_4)_3(\text{OH})_4\cdot4\text{H}_2\text{O}$

Cornwall, United Kingdom, probably from a mine in the St Day mines, Wheal Gorland group

Stuart J. Mills*, Anthony R. Kampf, Peter A. Williams, Peter Leverett, Glenn Poirier, Mati Raudsepp and Carl A. Francis

*E-mail: smills@eos.ubc.ca

Pharmacosiderite group

Cubic: $P4_3m$; structure determined

$a = 7.9587(2)$ Å

$8.050(100), 4.628(22), 4.005(14), 3.265(35),$

$2.830(23), 2.528(19), 2.412(30), 1.787(14)$

Type material is deposited in the Harvard Mineralogical Museum, catalogue number 142784
