

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

Proposals approved in May 2010

IMA No. 2010-005

$\text{Fe}_4(\text{SO}_4)\text{O}_2(\text{OH})_6 \cdot 2\text{H}_2\text{O}$

Cava del Ferro-Trimpele, 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
 $a = 16.085(2)$, $b = 3.054(1)$, $c = 10.929(2)$ 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

How to cite: Biagioni, C., Bonaccorsi, E. and Orlandi, P. (2010) IMA 2010-005. CNMNC Newsletter, June 2010, page 577; *Mineralogical Magazine*, **74**, 577–579.

IMA No. 2010-006

Hermannroseite
 $\text{CaCu}(\text{PO}_4)(\text{OH})$
 Tsumeb mine, Tsumeb, Namibia
 Jochen Schlüter* and Dieter Pohl
 *E-mail: Jochen.Schlueter@uni-hamburg.de
 Phosphate analogue of conicalcrite
 Orthorhombic: $P2_12_12_1$; 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
 How to cite: Schlüter, J. and Pohl, D. (2010)
 Hermannroseite, IMA 2010-006. CNMNC
 Newsletter, June 2010, page 578;
Mineralogical Magazine, **74**, 577–579.

IMA No. 2010-008

Cuprokalinitine
 CuCr_2S_4
 Pereval marble quarry, near Sludyanka, Irkutsk
 region, Siberia, Russia (51°37'N 103°38'E)
 L.Z. Reznitsky, E.V. Sklyarov, Z.F.
 Ushchapovskaya, L.F. Suvorova, Yu.S.
 Polekhovskiy, P. Dzierżanowski and Igor G.
 Barash*
 *E-mail: garry@crust.irk.ru
 Thiospinel
 Cubic: $Fd\bar{3}m$; 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.,
 Polekhovskiy, Yu.S., Dzierżanowski, P. and
 Barash, I.G. (2010) Cuprokalinitine, IMA
 2010-008. CNMNC Newsletter, June 2010,
 page 578; *Mineralogical Magazine*, **74**,
 577–579.

IMA No. 2010-009

Natropharmacoalumite
 $\text{NaAl}_4(\text{AsO}_4)_3(\text{OH})_4 \cdot 4\text{H}_2\text{O}$
 Maria Josefa mine, near Rodalquilar, Andalusia
 region, Spain (36°51'30N 2°5'2W)
 Mike S. Rumsey*, Stuart J. Mills and John Spratt
 *E-mail: m.rumsey@nhm.ac.uk
 Pharmacosiderite group

Cubic: $P\bar{4}3m$; 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
 How to cite: Rumsey, M.S., Mills, S.J. and
 Spratt, J. (2010) Natropharmacoalumite, IMA
 2010-009. CNMNC Newsletter, June 2010, page
 578; *Mineralogical Magazine*, **74**, 577–579.

NOMENCLATURE PROPOSAL APPROVED 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 classi-
 fication guide for naming future species.

Proposals approved in June 2010

IMA No. 2010-007

Greenwoodite
 $(\text{Ba}, \text{V}^{3+}\text{O})_2\text{V}_3^{3+}(\text{Fe}^{3+}, \text{Fe}^{2+})_2\text{Si}_2\text{O}_{22}$
 Wigwam deposit, Akolkolex River area British
 Columbia, Canada (50°52'48"N 117°58'04"W)
 Paul R. Bartholomew*, Franco Mancini, George
 E. Harlow, Christopher Cahill, Nicholas Deifel
 and Heinz-Jrgen Bernhardt
 *E-mail: pbartholomew@newhaven.edu
 New structure type
 Trigonal: $P\bar{3}m1$; 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
 How to cite: Bartholomew, P.R., Mancini, F.,
 Harlow, G.E., Cahill, C., Deifel, N. and
 Bernhardt, H.-Z. (2010) Greenwoodite, IMA
 2010-007. CNMNC Newsletter, June 2010, page
 578; *Mineralogical Magazine*, **74**, 577–579.

IMA No. 2010-010

Naquite
 FeSi
 Orebody 31, Luobusa mining district, Qusong
 County, Tibet (29°5'N 92°5'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: shinicheng@vip.sina.com

Known structure type

Cubic: $P2_13$

$a = 4.486(4) \text{ \AA}$

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

How to cite: Shi, N.-C., Li, G.-W., Bai, W.-J., Xiong, M., Yang, J.-S., Fang, Q.-S., Ma, Z.-S. and Rong, H. (2010) Naquite, IMA 2010-010. CNMNC Newsletter, June 2010, page 579; *Mineralogical Magazine*, **74**, 577–579.

IMA No. 2010-011

Linzhiite

FeSi_2

Orebody 31, Luobusa mining district, Qusong County, Tibet (29°5'N 92°5'E)

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

*E-mail: ligowu@126.com

Known synthetic compound

Tetragonal: $P4/mmm$; structure determined

$a = 2.725(3)$, $c = 5.202(10) \text{ \AA}$

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

How to cite: Li, G.-W., Shi, N.-C., Bai, W.-J., Xiong, M., Fang, Q.-S. and Ma, Z.-S. (2010) Linzhiite, IMA 2010-011. CNMNC Newsletter, June 2010, page 579; *Mineralogical Magazine*, **74**, 577–579.

IMA No. 2010-012

Coralloite

$\text{Mn}^{2+}\text{Mn}_2^{3+}(\text{AsO}_4)_2(\text{OH})_2 \cdot 4\text{H}_2\text{O}$

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 whitmoreite

Triclinic: $P1$

$a = 5.5828(7)$, $b = 9.7660(13)$, $c = 5.5455(7) \text{ \AA}$,
 $\alpha = 94.467(3)$, $\beta = 111.348(2)$, $\gamma = 93.85(2)^\circ$
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

How to cite: Callegari, A.M., Boiocchi, M., Ciriotti, M.E. and Balestra, C. (2010) Coralloite, IMA 2010-012. CNMNC Newsletter, June 2010, page 579; *Mineralogical Magazine*, **74**, 577–579.

IMA No. 2010-014

Hydroniumpharmacosiderite

$(\text{H}_3\text{O})\text{Fe}_4(\text{AsO}_4)_3(\text{OH})_4 \cdot 4\text{H}_2\text{O}$

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

$a = 7.9587(2) \text{ \AA}$

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

How to cite: Mills, S.J., Kampf, A.R., Williams, P.A., Leverett, P., Poirier, G., Raudsepp, M. and Francis, C.A. (2010) Hydroniumpharmacosiderite, IMA 2010-014. CNMNC Newsletter, June 2010, page 579; *Mineralogical Magazine*, **74**, 577–579.