

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

NEWSLETTER 18

NEW MINERALS APPROVED IN 2013
NOMENCLATURE MODIFICATIONS APPROVED IN 2013
BY THE
COMMISSION ON NEW MINERALS, NOMENCLATURE AND
CLASSIFICATION
INTERNATIONAL MINERALOGICAL ASSOCIATION

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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.**

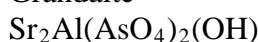
It is still a requirement for the authors to publish a full description of the new mineral.

NO OTHER INFORMATION WILL BE RELEASED BY THE COMMISSION

NEW MINERAL PROPOSALS APPROVED IN OCTOBER 2013

IMA No. 2013-059

Grandaite



La Valletta mine, Vallone della Valletta, Piedmont, Italy (44°23'542" N 7°542" E)

Fernando Cámara*, Marco E. Ciriotti, Erica Bittarello, Fabrizio Nestola, Fabio Bellatreccia, Federico Massimi, Francesco Radica, Emanuele Costa, Piera Benna and Gian Carlo Piccoli

*E-mail: fernando.camaraartigas@unito.it

Brackebuschite supergroup

Monoclinic: $P2_1/m$; structure determined

$a = 7.5764(5)$, $b = 5.9507(4)$, $c = 8.8050(6)$ Å, $\beta = 112.551(2)^\circ$

3.194(100), 2.981(51), 2.922(40), 2.743(31), 2.705(65), 2.087(52), 1.685(25), 1.663(13)

Type material is deposited in the collections of the Museo Regionale di Scienze Naturali di Torino, Sezione di Mineralogia, Petrografia e Geologia, Torino, Italy, catalogue number M/15999, and Museo Civico Archeologico e di Scienze Naturali "Federico Eusebio", Alba, Cuneo, Italy, catalogue number G. 1723 prog. 505

How to cite: Cámara, F., Ciriotti, M.E., Bittarello, E., Nestola, F., Bellatreccia, F., Massimi, F., Radica, F., Costa, E., Benna, P. and Piccoli, G.C. (2013) Grandaite, IMA 2013-059. CNMNC Newsletter No. 18, December, page 3250; *Mineralogical Magazine*, **77**, 3249-3258.

IMA No. 2013-062

Bluelizardite



Blue Lizard Mine, Red Canyon, White Canyon District, San Juan County, Utah, USA (37°33'26"N 110°17'44"W)

Jakub Plášil*, Anthony R. Kampf, Anatoly V. Kasatkin and Joe Marty

*E-mail: plasil@fzu.cz

New structure type

Monoclinic: $C2/c$; structure determined

$a = 21.1822(6)$, $b = 5.3544(1)$, $c = 34.730(3)$ Å, $\beta = 104.879(7)^\circ$

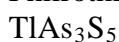
17.08(52), 10.31(60), 5.16(100), 3.484(27), 3.353(28), 3.186(36), 2.007(24), 1.716(28)

Type material is deposited in the collections of the Natural History Museum of Los Angeles County, Los Angeles, California, USA, catalogue numbers 64060, 64061, 64062 and 64063

How to cite: Plášil, J., Kampf, A.R., Kasatkin, A.V. and Marty, J. (2013) Bluelizardite, IMA 2013-062. CNMNC Newsletter No. 18, December, page 3250; *Mineralogical Magazine*, **77**, 3249-3258.

IMA No. 2013-066

Philrothite



Lengenbach quarry, Binn Valley, Valais, Switzerland

Luca Bindi*, Fabrizio Nestola, Emil Makovicky, Alessandro Guastoni and Luca Debattisti
*E-mail: luca.bindi@unifi.it

New structure type

Monoclinic: $P2_1/c$; structure determined

$a = 8.013(2)$, $b = 24.829(4)$, $c = 11.762(3)$ Å, $\beta = 132.84(2)^\circ$

12.415(52), 3.677(100), 3.454(45), 3.015(46), 2.894(52), 2.769(76), 2.764(77), 2.324(52)

Type material is deposited in the collections of the Museum of Mineralogy of the Department of Geosciences at the University of Padova, Italy, catalogue number MMP M1260

How to cite: Bindi, L., Nestola, F., Makovicky, E., Guastoni, A. and Debattisti, L. (2013) Philrothite, IMA 2013-066. CNMNC Newsletter No. 18, December, page 3250; *Mineralogical Magazine*, **77**, 3249-3258.

IMA No. 2013-068

Acmonidesite

$(\text{NH}_4, \text{K}, \text{Pb})_8 \text{NaFe}_4^{2+} (\text{SO}_4)_5 \text{Cl}_8$

La Fossa crater, Vulcano, Aeolian Islands, Italy

Francesco Demartin*, Italo Campostrini and Carlo Castellano

*E-mail: francesco.demartin@unimi.it

New structure type

Orthorhombic: $C222_1$; structure determined

$a = 9.841(1)$, $b = 19.448(3)$, $c = 17.847(3)$ Å

9.049(37), 8.766(100), 5.178(45), 4.250(42), 3.203(29), 2.926(42), 2.684(32), 1.805(88)

Type material is deposited in the Reference Collection of the Dipartimento di Chimica, University of Milan, Milan, Italy, sample number 2013-02

How to cite: Demartin, F., Campostrini, I. and Castellano, C. (2013) Acmonidesite, IMA 2013-068. CNMNC Newsletter No. 18, December, page 3250; *Mineralogical Magazine*, **77**, 3249-3258.

IMA No. 2013-069

Imayoshiite

$\text{Ca}_3 \text{Al} (\text{CO}_3) [\text{B}(\text{OH})_4] (\text{OH})_6 \cdot 12 \text{H}_2 \text{O}$

Suisho-dani, Ise City, Mie Prefecture, Japan (34°46'23N 136°73'27"E)

Daisuke Nishio-Hamane*, Masayuki Ohnishi, Koichi Momma, Norimasa Shimobayashi, Ritsuro Miyawaki, Tetsuo Minakawa and Sachio Inaba

*E-mail: hamane@issp.u-tokyo.ac.jp

Ettringite group

Hexagonal: $P6_3$; structure determined

$a = 11.0264(11)$, $c = 10.6052(16)$ Å

9.543(100), 4.636(40), 3.822(33), 2.729(31), 2.525(69), 2.174(30), 2.120(23), 1.768(28)

Type material is deposited in the collections of the National Museum of Nature and Science, Tsukuba, Japan, specimen numbers NSM M-43749 and NSM M-43750

How to cite: Nishio-Hamane, D., Ohnishi, M., Momma, K., Shimobayashi, N., Miyawaki, R., Minakawa, T. and Inaba, S. (2013) Imayoshiite, IMA 2013-069. CNMNC Newsletter No. 18, December, page 3251; *Mineralogical Magazine*, **77**, 3249-3258.

IMA No. 2013-070

Canutite

$\text{NaMn}_3 [\text{AsO}_4]_2 [\text{AsO}_2(\text{OH})_2]$

Torreillas mine, Salar Grande, Iquique Province, Chile (20°58'13"S 70°8'17"W)

Anthony R. Kampf*, Stuart J. Mills, Frédéric Hatert, Barbara Nash and Maurizio Dini
*E-mail: akampf@nhm.org

Alluaudite group

Monoclinic: $C2/c$; structure determined

$a = 12.3132(5)$, $b = 12.6042(6)$, $c = 6.8717(5)$ Å, $\beta = 113.500(8)^\circ$

6.34(36), 3.296(68), 3.151(41), 2.818(52), 2.750(100), 2.653(36), 1.697(44), 1.511(49)

Type material is deposited in the collections of the Natural History Museum of Los Angeles County, Los Angeles, California, USA, catalogue number 64065

How to cite: Kampf, A.R., Mills, S.J., Hatert, F., Nash, B. and Dini, M. (2013) Canutite, IMA 2013-070. CNMNC Newsletter No. 18, December, page 3251; *Mineralogical Magazine*, **77**, 3249-3258.

IMA No. 2013-071

Zvyaginite

$\text{NaZnNb}_2\text{Ti}[\text{Si}_2\text{O}_7]_2\text{O}(\text{OH},\text{F})_3(\text{H}_2\text{O})_{4+x}$ ($x < 1$)

No. 71 Pegmatite, Malyi Punkaruiv Mountain, Lovozero Alkaline Complex, Kola Peninsula, Russia

Igor V. Pekov*, Inna S. Lykova, Nikita V. Chukanov, Vasiliy O. Yapaskurt, Dmitriy I. Belakovskiy, Andrey A. Zolotarev and Natalia V. Zubkova

*E-mail: igorpekov@mail.ru

Epistolite group

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

$a = 8.975(3)$, $b = 8.979(3)$, $c = 12.135(4)$ Å, $\alpha = 74.328(9)$, $\beta = 80.651(8)$, $\gamma = 73.959(8)^\circ$

11.72(100), 5.83(40), 5.28(53), 4.289(86), 3.896(36), 2.916(57), 2.862(72), 1.782(24)

Type material is deposited in the collections of the Fersman Mineralogical Museum of the Russian Academy of Sciences, Moscow, Russia, registration number 4416/1

How to cite: Pekov, I.V., Lykova, I.S., Chukanov, N.V., Yapaskurt, V.O., Belakovskiy, D.I., Zolotarev, A.A. and Zubkova, N.V. (2013) Zvyaginite, IMA 2013-071. CNMNC Newsletter No. 18, December, page 3251; *Mineralogical Magazine*, **77**, 3249-3258.

IMA No. 2013-072

Ferro-ferri-nybøite

$\text{NaNa}_2(\text{Fe}^{2+}_3\text{Fe}^{3+}_2)(\text{Si}_7\text{Al})\text{O}_{22}(\text{OH})_2$

Poudrette quarry, Mont Saint-Hilaire, Rouville RMC, Montérégie, Québec, Canada

A.J. Lussier, F.C. Hawthorne*, Y. Abdu, N.A. Ball, K.T. Tait, M.E. Back, A.H. Steede, R. Taylor and A.M. MacDonald

*E-mail: frank_hawthorne@umanitoba.ca

Amphibole supergroup

Monoclinic: $C2/m$; structure determined

$a = 9.9190(5)$, $b = 18.0885(8)$, $c = 5.3440(3)$ Å, $\beta = 103.813(1)^\circ$

8.520(100), 3.298(7), 3.162(55), 2.834(24), 2.732(10), 2.552(10), 2.344(9), 1.671(19)

Type material is deposited in the collections of the Department of Natural History, Royal Ontario Museum, Toronto, Ontario, Canada, catalogue number M55980

How to cite: Lussier, A.J., Hawthorne, F.C., Abdu, Y., Ball, N.A., Tait, K.T., Back, M.E., Steede, A.H., Taylor, R. and MacDonald, A.M. (2013) Ferro-ferri-nybøite, IMA 2013-072. CNMNC Newsletter No. 18, December, page 3251; *Mineralogical Magazine*, **77**, 3249-3258.

IMA No. 2013-073

Hydroxycalciumicrolite

Ca_{1.5}Ta₂O₆(OH)

Volta Grande pegmatite, Nazareno, Minas Gerais, Brazil (21°10'08.6"S 44°36'01.3"W)

Marcelo B. Andrade*, Hexiong Yang, Daniel Atencio, Robert T. Downs, Nikita V. Chukanov, Marie-Hélène Lemée-Cailleau, Aba I. C. Persiano, Andres E. Goeta and Javier Ellena

*E-mail: mabadean@terra.com.br

Pyrochlore supergroup

Cubic: $P4_32$; structure determined

$a = 10.4211(8)$ Å

6.025(100), 3.145(15), 3.010(73), 2.606(7), 2.006(7), 1.843(8), 1.572(5), 1.505(4)

Type material is deposited in the collections of the Museu de Geociências, Instituto de Geociências, Universidade de São Paulo, São Paulo, Brazil, sample number DR917, and at the RRUFF Project, deposition number R130269

How to cite: Andrade, M.B., Yang, H., Atencio, D., Downs, R.T., Chukanov, N.V.,

Lemée-Cailleau, M.-H., Persiano, A.I.C., Goeta, A.E. and Ellena, J. (2013)

Hydroxycalciumicrolite, IMA 2013-073. CNMNC Newsletter No. 18, December, page 3252; *Mineralogical Magazine*, **77**, 3249-3258.

IMA No. 2013-074

Nestolaite

CaSeO₃·H₂O

Little Eva mine, Yellow Cat District, Grand County, Utah, USA (38° 50'17" N, 109° 31'35"W)

Anatoly V. Kasatkin*, Jakub Plášil, Joe Marty, Dmitriy I. Belakovskiy, Atali A.

Agakhanov and Inna S. Lykova

*E-mail: anatoly.kasatkin@gmail.com

Known synthetic compound

Monoclinic: $P2_1/c$; structure determined

$a = 7.6500(8)$, $b = 6.7472(9)$, $c = 7.9357(10)$ Å, $\beta = 108.542(11)^\circ$

7.277(100), 4.949(37), 3.767(29), 3.630(58), 3.371(24), 3.163(74), 2.978(74), 2.723(31)

Type material is deposited in the collections of the Fersman Mineralogical Museum of the Russian Academy of Sciences, Moscow, Russia, registration number 4417/1

How to cite: Kasatkin, A.V., Plášil, J., Marty, J., Belakovskiy, D.I., Agakhanov, A.A. and

Lykova, I.S. (2013) Nestolaite, IMA 2013-074. CNMNC Newsletter No. 18, December, page 3252; *Mineralogical Magazine*, **77**, 3249-3258.

IMA No. 2013-075

Belakovskiite

Na₇(UO₂)(SO₄)₄(SO₃OH)(H₂O)₃

Blue Lizard Mine, Red Canyon, White Canyon District, San Juan County, Utah, USA (37°33'26"N 110°17'44"W)

Anthony R. Kampf*, Jakub Plášil, Anatoly V. Kasatkin and Joe Marty

*E-mail: akampf@nhm.org

New structure type

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

$a = 5.4581(3)$, $b = 11.3288(6)$, $c = 18.4163(13)$ Å, $\alpha = 104.786(7)$, $\beta = 90.092(6)$, $\gamma = 96.767(7)^\circ$

8.96(35), 8.46(29), 5.19(100), 4.66(58), 3.568(37), 3.057(59), 2.930(27), 1.832(29)

Type material is deposited in the collections of the Natural History Museum of Los Angeles County, Los Angeles, California, USA, catalogue number 64055, and the

Fersman Mineralogical Museum of the Russian Academy of Sciences, Moscow, Russia, registration number 4410/1

How to cite: Kampf, A.R., Plášil, J., Kasatkin, A.V. and Marty, J. (2013) Belakovskiite, IMA 2013-075. CNMNC Newsletter No. 18, December, page 3252; *Mineralogical Magazine*, **77**, 3249-3258.

IMA No. 2013-076

Grațianite

MnBi_2S_4

Antoniu ore pipe, Băița Bihor, Romania, Bihor County, Romania

Joël Brugger*, Cristiana L. Ciobanu, Stuart J. Mills, Nigel J. Cook, Gheorghe Damian, Floarea Damian and Peter Elliott

*E-mail: joel.brugger@adelaide.edu.au

Monoclinic analogue of berthierite, garavellite and clerite

Monoclinic: $C2/m$; structure determined

$a = 12.677(3)$, $b = 3.9140(8)$, $c = 14.758(3)$ Å, $\beta = 115.31(3)^\circ$

5.73(43), 3.644(54), 3.637(55), 3.448(100), 3.335(43), 3.062(52), 2.855(64), 2.731(77)

Type material is deposited in the collections of the South Australian Museum, Adelaide, Australia, catalogue number G33937

How to cite: Brugger, J., Ciobanu, C.L., Mills, S.J., Cook, N.J., Damian, G., Damian, F. and Elliott, P. (2013) Grațianite, IMA 2013-076. CNMNC Newsletter No. 18, December, page 3252; *Mineralogical Magazine*, **77**, 3249-3258.

IMA No. 2013-077

Tondiite

$\text{Cu}_3\text{MgCl}_2(\text{OH})_6$

Vesuvius volcano, Vesuvius, Italy

Manuela Rossi, Fabrizio Nestola*, Luca Bindi and Maria Rosaria Ghiara

*E-mail: fabrizio.nestola@unipd.it

Mg analogue of herbertsmithite, gillardite and leverettite

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

$a = 6.8377(7)$, $c = 14.088(2)$ Å

5.459(88), 3.419(22), 2.898(15), 2.764(100), 2.266(54), 1.820(19), 1.709(26), 1.382(13)

Type material is deposited in the collections of the Real Museo Mineralogico di Napoli (Italy) Università di Napoli, Napoli, Italy, catalogue number 1178R

How to cite: Rossi, M., Nestola, F., Bindi, L. and Ghiara, M.R. (2013) Tondiite, IMA 2013-077. CNMNC Newsletter No. 18, December, page 3253; *Mineralogical Magazine*, **77**, 3249-3258.

IMA No. 2013-078

Shchurovskyite

$\text{K}_2\text{CaCu}_6\text{O}_2(\text{AsO}_4)_4$

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)

Igor V. Pekov*, Natalia V. Zubkova, Dmitriy I. Belakovskiy, Vasiliy O. Yapaskurt, Marina F. Vigasina, Evgeny G. Sidorov and Dmitry Y. Pushcharovsky

*E-mail: igorpekov@mail.ru

New structure type

Monoclinic: $C2$; structure determined

$a = 17.2856(9)$, $b = 5.6705(4)$, $c = 8.5734(6)$ Å, $\beta = 92.953(6)^\circ$
8.61(100), 5.400(32), 3.759(28), 2.974(32), 2.842(47), 2.757(63), 2.373(36), 2.297(31)
Type material is deposited in the collections of the Fersman Mineralogical Museum of the Russian Academy of Sciences, Moscow, Russia, registration number 4421/1
How to cite: Pekov, I.V., Zubkova, N.V., Belakovskiy, D.I., Yapaskurt, V.O., Viggasina, M.F., Sidorov, E.G. and Pushcharovsky, D.Y. (2013) Shchurovskyite, IMA 2013-078. CNMNC Newsletter No. 18, December, page 3253; *Mineralogical Magazine*, **77**, 3249-3258.

IMA No. 2013-079

Dmisokolovite



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)

Igor V. Pekov*, Natalia V. Zubkova, Dmitriy I. Belakovskiy, Vasiliy O. Yapaskurt, Marina F. Viggasina, Evgeny G. Sidorov and Dmitry Y. Pushcharovsky

*E-mail: igorpekov@mail.ru

New structure type

Monoclinic: $C2/c$; structure determined

$a = 17.0848(12)$, $b = 5.7188(4)$, $c = 16.5332(12)$ Å, $\beta = 91.716(6)^\circ$

8.34(95), 5.433(84), 3.274(45), 2.921(66), 2.853(58), 2.733(100), 2.451(47), 2.366(45)

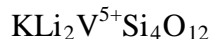
Type material is deposited in the collections of the Fersman Mineralogical Museum of the Russian Academy of Sciences, Moscow, Russia, registration number 4412/1

How to cite: Pekov, I.V., Zubkova, N.V., Belakovskiy, D.I., Yapaskurt, V.O., Viggasina, M.F., Sidorov, E.G. and Pushcharovsky, D.Y. (2013) Dmisokolovite, IMA 2013-079.

CNMNC Newsletter No. 18, December, page 3253; *Mineralogical Magazine*, **77**, 3249-3258.

IMA No. 2013-080

Balestraitite



Cerchiara mine, Faggiona, Val di Vara, La Spezia, northern Apennines, eastern Liguria, Italy (44°11'58"N 9°42'1"E)

Giovanni O. Lepore*, Luca Bindi, Paola Bonazzi, Alberto Zanetti, Marco E. Ciriotti and Olaf Medenbach

*E-mail: giovanniorazio.lepore@unifi.it

Mica group

Monoclinic: $C2$; structure determined

$a = 5.2024(5)$, $b = 8.9782(7)$, $c = 9.997(2)$ Å, $\beta = 100.40(2)^\circ$

9.9(50), 4.51(100), 4.34(40), 3.60(40), 3.08(35), 2.592(70), 2.574(70), 2.385(70)

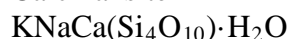
Type material is deposited in the collections of the Museo di Storia Naturale, Università degli Studi di Firenze, Firenze, Italy, catalogue number 3133/I

How to cite: Lepore, G.O., Bindi, L., Bonazzi, P., Zanetti, A., Ciriotti, M.E. and Medenbach, O. (2013) Balestraitite, IMA 2013-080. CNMNC Newsletter No. 18,

December, page 3253; *Mineralogical Magazine*, **77**, 3249-3258.

IMA No. 2013-081

Calcinaksite



Bellerberg volcano, between Mayen and Kottenheim, Laacher See area, Eastern Eifel region, Rhineland-Palatinate, Germany

Nikita V. Chukanov*, Sergey M. Aksenov, Ramiza K. Rastsvetaeva, Günter Blass, Dmitry A. Varlamov, Igor V. Pekov, Dmitriy I. Belakovskiy and Vladislav V. Gurzhiy

*E-mail: chukanov@icp.ac.ru

Lithidionite group

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

$a = 7.021(2)$, $b = 8.250(3)$, $c = 10.145(2)$ Å, $\alpha = 102.23(2)$, $\beta = 100.34(2)$, $\gamma = 115.09(3)^\circ$
3.431(70), 3.300(67), 3.173(95), 3.060(100), 2.851(83), 2.664(62), 2.493(52), 1.749(45)

Type material is deposited in the collections of the Fersman Mineralogical Museum of the Russian Academy of Sciences, Moscow, Russia, registration number 4419/1

How to cite: Chukanov, N.V., Aksenov, S.M., Rastsvetaeva, R.K., Blass, G., Varlamov, D.A., Pekov, I.V., Belakovskiy, D.I. and Gurzhiy, V.V. (2013) Calcinaksite, IMA 2013-081. CNMNC Newsletter No. 18, December, page 3254; *Mineralogical Magazine*, **77**, 3249-3258.

IMA No. 2013-082

Vapnikite

Ca_3UO_6

Jabel Harmun, Nabi Musa, Judea Desert, West Bank, Palestinian Autonomy, Israel
(31°46'N 35°26'E)

Evgeny V. Galuskin*, Irina O. Galuskina, Joachim Kusz, Thomas Armbruster, Katarzyna Marzec Piotr Dzierżanowski and Mikhail Murashko

*E-mail: evgeny.galuskin@us.edu.pl

Perovskite group

Monoclinic: $P2_1/n$; structure determined

$a = 5.739(1)$, $b = 5.951(1)$, $c = 8.312(1)$ Å, $\beta = 90.4(1)^\circ$
4.838(78), 4.706(39), 4.131(79), 2.975(47), 2.938(100), 2.922(99), 2.870(43), 2.065(47)

Type material is deposited in the collections of the Museum of Natural History in Bern, Bern, Switzerland, catalogue number NMBE 42401

How to cite: Galuskin, E.V., Galuskina, I.O., Kusz, J., Armbruster, T., Marzec, K., Dzierżanowski, P. and Murashko, M. (2013) Vapnikite, IMA 2013-082. CNMNC Newsletter No. 18, December, page 3254; *Mineralogical Magazine*, **77**, 3249-3258.

IMA No. 2013-083

Saamite

$\text{Ba}\square\text{Na}_3\text{Ti}_2\text{Nb}(\text{Si}_2\text{O}_7)_2\text{O}_2(\text{OH})\text{F}(\text{H}_2\text{O})_2$

Kirovskii mine, Mountt Kukisvumchorr, Khibiny alkaline massif, Kola Peninsula, Russia
Fernando Cámara*, Elena Sokolova and Frank C. Hawthorne

*E-mail: fernando.camaraartigas@unito.it

Chemically and topologically related to kazanskyite, nechelyustovite and bornemanite

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

$a = 5.437(2)$, $b = 7.141(3)$, $c = 21.69(1)$ Å, $\alpha = 92.97(1)$, $\beta = 96.07(1)$, $\gamma = 90.01(1)^\circ$
21.539(100), 7.180(11), 3.077(13), 2.887(9), 2.865(11), 2.790(15), 2.692(14), 1.785(9)

Type material is deposited in the collections of the Fersman Mineralogical Museum of the Russian Academy of Sciences, Moscow, Russia, catalogue numbers 4432/1 and 4432/2

How to cite: Cámara, F., Sokolova, E. and Hawthorne, F.C. (2013) Saamite, IMA 2013-083. CNMNC Newsletter No. 18, December, page 3254; *Mineralogical Magazine*, **77**, 3249-3258.

IMA No. 2013-084

Moraskoite

$\text{Na}_2\text{Mg}(\text{PO}_4)\text{F}$

Morasko iron meteorite

Łukasz Karwowski, Joachim Kusz, Andrzej Muszyński, Ryszard Kryza*, Maciej Sitarz and Evgeny V. Galuskin

*E-mail: ryszard.kryza@ing.uni.wroc.pl

Known synthetic phase

Orthorhombic: *Pbcn*; structure determined

$a = 5.2117(10)$, $b = 13.711(3)$, $c = 11.665(2)$ Å

3.909(75), 3.382(52), 2.955(90), 2.606(100), 2.571(96), 2.545(68), 1.955(83), 1.691(67)

Type material is deposited in the collections of the Mineralogical Museum of the University of Wrocław, Wrocław, Poland, catalogue number MMUWr IV-7766

How to cite: Karwowski, Ł., Kusz, J., Muszyński, A., Kryza, R., Sitarz, M. and Galuskin, E.V. (2013) Moraskoite, IMA 2013-084. CNMNC Newsletter No. 18, December, page 3254; *Mineralogical Magazine*, **77**, 3249-3258.

IMA No. 2013-085

Itsiite

$\text{Ba}_2\text{Ca}(\text{BSi}_2\text{O}_7)_2$

Trench 1, Gun claim, Wilson Lake, Itsi Range, Yukon Territory, Canada (62°50'45"N 130°0'20"W)

Anthony R. Kampf*, Ronald C. Peterson and Brian R. Joy

*E-mail: akampf@nhm.org

Structurally related to hyalotekite and kapitsaite-(Y)

Tetragonal: $I\bar{4}2m$; structure determined

$a = 10.9515(5)$, $c = 10.3038(7)$ Å

5.50(42), 3.764(100), 3.446(60), 3.100(51), 2.899(96), 2.279(44), 2.145(69), 1.758(43)

Type material is deposited in the collections of the Natural History Museum of Los Angeles County, Los Angeles, California, USA, catalogue number 64072

How to cite: Kampf, A.R., Peterson, R.C. and Joy, B.R. (2013) Itsiite, IMA 2013-085. CNMNC Newsletter No. 18, December, page 3255; *Mineralogical Magazine*, **77**, 3249-3258.

IMA No. 2013-086

Campostriniite

$(\text{Bi},\text{Na})_3(\text{Na},\text{K})_4(\text{SO}_4)_6 \cdot \text{H}_2\text{O}$

La Fossa crater, Vulcano, Aeolian Islands, Italy

Francesco Demartin*, Carlo Maria Gramaccioli and Carlo Castellano

*E-mail: francesco.demartin@unimi.it

New structure type

Monoclinic: *C2/c*; structure determined

$a = 17.748(3)$, $b = 6.982(1)$, $c = 18.221(3)$ Å, $\beta = 113.97(1)^\circ$

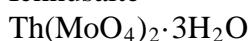
7.507(75), 6.396(100), 5.677(55), 4.410(47), 3.380(57), 3.166(50), 3.048(75), 2.766(60)

Type material is deposited in the Reference Collection of the Dipartimento di Chimica, University of Milan, Milan, Italy, sample number 2013-03

How to cite: Demartin, F., Gramaccioli, C.M. and Castellano, C. (2013) Campostriniite, IMA 2013-086. CNMNC Newsletter No. 18, December, page 3255; *Mineralogical Magazine*, **77**, 3249-3258.

IMA No. 2013-087

Ichnusaite



Su Senargiu, Sarroch, Cagliari, Sardinia, Italy

Paolo Orlandi*, Cristian Biagioni, Luca Bindi and Fabrizio Nestola

*E-mail: paolorlandi.pisa@gmail.com

New structure type

Monoclinic: $P2_1/c$; structure determined

$a = 9.6797(12)$, $b = 10.3771(13)$, $c = 9.3782(12)$ Å, $\beta = 90.00(1)^\circ$

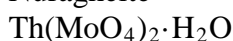
9.7(mw), 5.66(m), 5.19(mw), 4.69(mw), 3.930(m), 3.479(s), 3.257(s), 3.074(m)

Type material is deposited in the collections of the Museo di Storia Naturale, Università di Pisa, Calci (Pisa), Italy, catalogue number 19679

How to cite: Orlandi, P., Biagioni, C., Bindi, L. and Nestola, F. (2013) Ichnusaite, IMA 2013-087. CNMNC Newsletter No. 18, December, page 3255; *Mineralogical Magazine*, **77**, 3249-3258.

IMA No. 2013-088

Nuragheite



Su Senargiu, Sarroch, Cagliari, Sardinia, Italy

Paolo Orlandi*, Cristian Biagioni and Luca Bindi

*E-mail: paolorlandi.pisa@gmail.com

New structure type

Monoclinic: $P2_1/c$; structure determined

$a = 7.358(2)$, $b = 10.544(3)$, $c = 9.489(2)$ Å, $\beta = 91.88(2)^\circ$

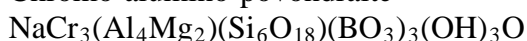
5.28(m), 5.20(m), 5.04(m), 4.756(m), 3.688(m), 3.546(vs), 3.177(s), 3.024(m)

Type material is deposited in the collections of the Museo di Storia Naturale, Università di Pisa, Calci (Pisa), Italy, catalogue number 19680

How to cite: Orlandi, P., Biagioni, C. and Bindi, L. (2013) Nuragheite, IMA 2013-088. CNMNC Newsletter No. 18, December, page 3255; *Mineralogical Magazine*, **77**, 3249-3258.

IMA No. 2013-089

Chromo-alumino-povondraite



Pereval marble quarry, Irkutsk region, Southern Lake Baikal, Siberia, Russia (51°37'N, 103°38'E)

Christine M. Clark, Frank C. Hawthorne*, Joel D. Grice, Ferdinando Bosi, Henrik Skogby, Leonid Reznitskii and Ulf Hålenius

*E-mail: frank_hawthorne@umanitoba.ca

Tourmaline supergroup

Trigonal: $R3m$; structure determined

$a = 16.0277(2)$, $c = 7.3085(1)$ Å

6.496(47), 5.058(24), 4.279(42), 4.019(55), 3.548(44), 3.010(51), 2.601(100), 2.006(46)

Type material is deposited in the collections of the Museum of Mineralogy, Earth Sciences Department, Sapienza University of Rome, Italy, catalogue number 33069/1

How to cite: Clark, C.M., Hawthorne, F.C., Grice, J.D., Bosi, F., Skogby, H., Reznitskii, L. and Hålenius, U. (2013) Chromo-alumino-povondraite, IMA 2013-089. CNMNC Newsletter No. 18, December, page 3255; *Mineralogical Magazine*, **77**, 3249-3258.

IMA No. 2013-090

Agakhanovite-(Y)

$\text{YCaKBe}_3\text{Si}_{12}\text{O}_{30}\cdot\text{H}_2\text{O}$

Heftetjern pegmatite, between Høydalen and Skarsfjell, Tørdal, Norway (59°8.6'N 8°45.4'E)

Frank C. Hawthorne*, Neil A. Ball, Petr Černý and Roy Kristiansen

*E-mail: frank_hawthorne@umanitoba.ca

Milarite group

Hexagonal: $P6/mcc$; structure determined

$a = 10.3476(2)$, $c = 13.7610(3)$ Å

6.877(56), 4.479(38), 4.134(84), 3.287(96), 3.214(27), 2.986(43), 2.865(100), 2.728(36)

Type material is deposited in the collections of the Royal Ontario Museum, Toronto, Ontario, Canada, catalogue number M43863

How to cite: Hawthorne, F.C., Ball, N.A., Černý, P. and Kristiansen, R. (2013)

Agakhanovite-(Y), IMA 2013-090. CNMNC Newsletter No. 18, December, page 3256; *Mineralogical Magazine*, **77**, 3249-3258.

IMA No. 2013-091

Gatedalite

$\text{ZrMn}^{2+}_2\text{Mn}^{3+}_4\text{SiO}_{12}$

Långban, Filipstad, Värmland, Sweden

Ulf Hålenius* and Ferdinando Bosi

*E-mail: ulf.halenius@nrm.se

Braunite group

Tetragonal: $I4_1/acd$; structure determined

$a = 9.4668(6)$, $c = 18.8701(14)$ Å

5.460(6), 2.730(100), 2.367(12), 2.359(6), 1.6735(12), 1.671(29), 1.427(16), 1.423(10)

Type material is deposited in the collections of the Swedish Museum of Natural History, Stockholm, Sweden, registration number 20130001

How to cite: Hålenius, U. and Bosi, F. (2013) Gatedalite, IMA 2013-091. CNMNC Newsletter No. 18, December, page 3256; *Mineralogical Magazine*, **77**, 3249-3258.

IMA No. 2013-092

Parascandolaite

KMgF_3

Fumarole B5, Vesuvius, Naples, Italy

Italo Campostrini*, Francesco Demartin, Carlo Castellano and Massimo Russo

*E-mail: italo.campostrini@unimi.it

Perovskite group

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

$a = 4.0032(9)$ Å

2.831(83), 2.311(78), 2.001(100), 1.633(35), 1.415(56), 1.267(16), 1.206(22)

Type material is deposited in the Reference Collection of the Dipartimento di Chimica, University of Milan, Milan, Italy, sample number 2013-04

How to cite: Campostrini, I., Demartin, F., Castellano, C. and Russo, M. (2013)

Parascandolaite, IMA 2013-092. CNMNC Newsletter No. 18, December, page 3256; *Mineralogical Magazine*, **77**, 3249-3258.

NEW MINERAL PROPOSALS APPROVED IN NOVEMBER 2013

IMA No. 2013-067

Marshallussmanite

$\text{NaCaMnSi}_3\text{O}_8(\text{OH})$

Wessels mine, Kalahari Manganese Field, Northern Cape Province, South Africa

Marcus J. Origlieri*, Robert T. Downs and Hexiong Yang

*E-mail: moriglie@email.arizona.edu

Pectolite group

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

$a = 7.7834(4)$, $b = 6.9373(4)$, $c = 6.8496(3)$ Å, $\alpha = 90.680(3)$, $\beta = 94.329(3)$, $\gamma = 102.854(3)^\circ$

3.227(45), 3.104(15), 3.041(100), 2.868(20), 2.657(15), 2.534(20), 2.202(25), 1.715(15)

Type material is deposited in the collections of the University of Arizona Mineral Museum, Tucson, Arizona, USA, catalogue number 19348 and the RRUFF Project, deposition number R120109

How to cite: Origlieri, M.J., Downs, R.T and Yang, H. (2013) Marshallussmanite, IMA 2013-067. CNMNC Newsletter No. 18, December, page 3256; *Mineralogical Magazine*, **77**, 3249-3258.

IMA No. 2013-093

Braccoite

$\text{NaMn}^{2+}_5[\text{Si}_5\text{O}_{14}(\text{OH})](\text{AsO}_3)(\text{OH})$

La Valletta mine, Vallone della Valletta, Maira Valley, Cuneo Province, Piedmont, Italy (44°23'542"N 7°542"E, 2536 m asl)

Fernando Cámara*, Erica Bittarello, Marco E. Ciriotti, Fabrizio Nestola, Francesco Radica and Marco Marchesini

*E-mail: fernando.camaraartigas@unito.it

As analogue of saneroite

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

$a = 9.740(6)$, $b = 9.900(7)$, $c = 9.085(6)$ Å, $\alpha = 92.06(5)$, $\beta = 117.41(5)$, $\gamma = 105.27(5)^\circ$
3.514(29), 3.042(57), 3.005(61), 2.973(82), 2.821(100), 2.696(87), 2.614(29), 1.673(30)

Type material is deposited in the mineralogical collections of the Museo Regionale di Scienze Naturali di Torino, Sezione di Mineralogia, Petrografia e Geologia, Torino, Italy, catalogue number M/15939

How to cite: Cámara, F., Bittarello, E., Ciriotti, M.E., Nestola, F., Radica, F. and Marchesini, M. (2013) Braccoite, IMA 2013-093. CNMNC Newsletter No. 18, December, page 3256; *Mineralogical Magazine*, **77**, 3249-3258.

IMA No. 2013-096

Caesiumpharmacosiderite

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

Wendy pit, Tambo mine, Elqui Province, Coquimbo Region, Chile (29°46'50"S 69°56'58"W) and Puna Plateau, Tuzgle volcano, Susques Department, Jujuy, Argentina (24°00'S 66°30'W)

Stuart J. Mills*, Elisa Petrini, Fabio Bellatreccia, Jochen Schlüter, Anthony R. Kampf, Mike S. Rumsey, Maurizio Dini and John Spratt

*E-mail: smills@museum.vic.gov.au

Pharmacosiderite group

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

$a = 7.9637(11)$ Å

8.04(100), 4.627(23), 4.009(17), 3.270(40), 2.831(31), 2.532(22), 2.415(22), 1.790(14)
Type material is deposited in the mineralogical collections of the Natural History Museum of Los Angeles County, Los Angeles, California, USA, catalogue number 63205, and Museum Victoria, Melbourne, Victoria, Australia, catalogue numbers M52762 and M52763

How to cite: Mills, S.J., Petrini, E., Bellatreccia, F., Schlüter, J., Kampf, A.R., Rumsey, M.S., Dini, M. and Spratt, J. (2013) Caesiumpharmacosiderite, IMA 2013-096. CNMNC Newsletter No. 18, December, page 3257; *Mineralogical Magazine*, **77**, 3249-3258.

IMA No. 2013-097

Okruschite



Fuchs quarry, Hartkoppe Hill, Sailauf, Bavaria, Germany

Nikita V. Chukanov*, Gerhard Möhn, Igor V. Pekov, Dmitriy I. Belakovskiy, Yana V.

Bychkova, Joachim A. Lorenz and Vladislav V. Gurzhiy

*E-mail: nikchukanov@yandex.ru

Roscherite group

Monoclinic: $C2/c$

$a = 16.32(3)$, $b = 12.04(2)$, $c = 6.92(1)$ Å, $\beta = 94.8(1)^\circ$

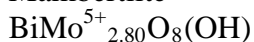
9.68(39), 4.95(34), 4.17(34), 3.25(100), 3.11(32), 2.841(27), 2.711(26), 1.726(26)

Type material is deposited in the collections of the Fersman Mineralogical Museum of the Russian Academy of Sciences, Moscow, Russia, registration number 4434/1

How to cite: Chukanov, N.V., Möhn, G., Pekov, I.V., Belakovskiy, D.I., Bychkova, Y.V., Lorenz, J.A. and Gurzhiy, V.V. (2013) Okruschite, IMA 2013-097. CNMNC Newsletter No. 18, December, page 3257; *Mineralogical Magazine*, **77**, 3249-3258.

IMA No. 2013-098

Mambertiite



Su Senargiu, Sarroch, Cagliari, Sardinia, Italy

Paolo Orlandi*, Cristian Biagioni, Marco Pasero, Francesco Demartin and Italo

Campostrini

*E-mail: paolorlandi.pisa@gmail.com

Structurally related to gelosaitite

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

$a = 5.854(2)$, $b = 7.637(3)$, $c = 9.050(3)$ Å, $\alpha = 112.85(1)$, $\beta = 90.04(1)$, $\gamma = 102.58(1)^\circ$

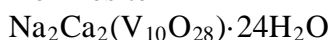
8.3(ms), 4.92(s), 3.417(vs), 3.136(ms), 2.850(ms)

Type material is deposited in the collections of the Museo di Storia Naturale, Università di Pisa, Calci (Pisa), Italy, catalogue number 19682

How to cite: Orlandi, P., Biagioni, C., Pasero, M., Demartin, F. and Campostrini, I. (2013) Mambertiite, IMA 2013-098. CNMNC Newsletter No. 18, December, page 3257; *Mineralogical Magazine*, **77**, 3249-3258.

IMA No. 2013-099

Kokinosite



St Jude mine, Gypsum Valley, San Miguel County, Colorado, USA

Anthony R. Kampf*, John M. Hughes, Joe Marty and Barbara Nash

*E-mail: akampf@nhm.org

New structure type

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

$a = 8.7490(2)$, $b = 10.9746(3)$, $c = 12.8216(9)$ Å, $\alpha = 114.492(8)$, $\beta = 105.093(7)$, $\gamma = 91.111(6)^\circ$

11.24(30), 9.88(100), 8.42(33), 7.92(35), 6.01(31), 2.814(28), 2.189(22), 1.961(26)

Type material is deposited in the collections of the Natural History Museum of Los Angeles County, Los Angeles, California, USA, catalogue numbers 64004, 64074, 64075, 64076, 64077 and 64078

How to cite: Kampf, A.R., Hughes, J.M., Marty, J. and Nash, B. (2013) Kokinosite, IMA 2013-099. CNMNC Newsletter No. 18, December, page 3258; *Mineralogical Magazine*, **77**, 3249-3258.

ERRATA

IMA No. **2013-041** Evdokimovite

In CNMNC Newsletter 17, the formula was given incorrectly. The correct formula is $Tl_4(VO)_3(SO_4)_5(H_2O)_5$.

IMA No. **2013-038** Innsbruckite

In CNMNC Newsletter 17, the formula was given incorrectly. The correct formula is $Mn_{33}(Si_2O_5)_{14}(OH)_{38}$.

IMA No. **2013-037** Kaliochalcite

In CNMNC Newsletter 17, the formula was given incorrectly. The correct formula is $KCu_2(SO_4)_2[(OH)(H_2O)]$.

In CNMNC Newsletter 17, the data summary for IMA No. **2013-056**, Fluornatropyrochlore, contained an incorrect mineral name. The correct summary is given below.

IMA No. **2013-056**

Fluornatropyrochlore

$(Na,Pb,Ca,REE,U)_2Nb_2O_6F$

Maoniuping rare earth deposit, Mianning County, Sichuan Province, China

$(28^\circ 27' 29.89'' N 101^\circ 58' 46.93'' E)$

Yin Jingwu, Li Guowu*, Yang Guangming, Xiong Ming, Ge Xiangkun and Pan Baoming

*E-mail: liguowu@126.com

Pyrochlore supergroup

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

$a = 10.5053(10)$ Å

6.074(3), 3.042(100), 2.628(38), 1.857(34), 1.582(15), 1.515(4), 1.314(2), 1.205(3)

Type material is deposited in the collections of the Laboratory of Crystal Structure, Scientific Research Institute, China University of Geosciences, Beijing, 100083, China, catalogue number MNP-X-2

How to cite: Yin Jingwu, Li Guowu*, Yang Guangming, Xiong Ming, Ge Xiangkun and Pan Baoming (2013) Fluornatropyrochlore, IMA 2013-056. CNMNC Newsletter No. 17, October 2013, page 3003; *Mineralogical Magazine*, **77**, 2997-3005.