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

NEWSLETTER 12

New minerals and nomenclature modifications approved in 2012

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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

DOI: 10.1180/minmag.2012.076.1.151
New mineral proposals approved in November 2011

IMA No. 2011-076
Disulfodadsonite
Pb₁₁Sb₁₃S₃₀(S₂)₀·₅
Ceragiola area of the Seravezza marble quarries, Apuan Alps, Tuscany, Italy
Paolo Orlandi*, Yves Moëlo, Cristian Biagioni and Elena Bonaccorsi
*E-mail: orlandi@dst.unipi.it
Cl-free homeotype of dadsonite, stabilized by S₂⁻ ions
Triclinic: P̅₁; structure determined
a = 4.1227(2), b = 17.4274(12), c = 19.1704(13) Å, α = 96.196(6), β = 89.960(4), γ = 91.405(5)°
3.820(vs), 3.649(s), 3.416(s), 3.381(vs), 2.857(ms), 2.814(ms), 1.897(ms)
Type material is deposited in the collections of the Museo di Storia Naturale e del Territorio, Università di Pisa, Calci, Italy, catalogue number 19442

IMA No. 2011-080
Hillesheimite
(K,Ca,Ba,□)₂(Mg,Fe,Ca,□)₂[(Si,Al)₁₃O₂₃(OH)₆](OH)·₈H₂O
Graulay, Hillesheim, Eifel Mountains, Rheinland-Pfalz, Germany
Nikita V. Chukanov*, Natalia V. Zubkova, Igor V. Pekov, Willi Schüller, Bernd Ternes, Günter Blaß and Dmitriy Y. Pushcharovsky
*E-mail: chukanov@icp.ac.ru
Structurally related to guentherblassite and umbrianite
Trigonal: P₃₂₁, P₃₃₁ or P₃̅₁m; structure determined
a = 3.791(3), b = 11.30(1) Å, c = 11.37(100), 5.65(55), 3.155(4), 2.809(20), 1.623(11)
Type material is deposited in the collections of the Fersman Mineralogical Museum of the Russian Academy of Sciences, Moscow, Russia, registration number 4155/1

IMA No. 2011-082
Ekplexite
(Nb,Mo,W)S₂(Mg₁₋ₓAlₓ)(OH)₂₋ₓ
Mount Kaskasnyunchorr, Khibiny alkaline complex, Kola Peninsula, Russia
Igor V. Pekov*, Vasily O. Yapaskurt and Yury S. Polekhovsky
*E-mail: igorpekov@mail.ru
Valleriite group
Orthorhombic: Pbcm; structure determined
a = 6.979(11), b = 37.1815(18), c = 6.5296(15) Å, a = 6.850(74), 6.545(100), 6.284(53), 4.787(96), 4.499(59), 3.065(86), 2.958(62), 2.767(62)
Type material is deposited in the collections of the Fersman Mineralogical Museum of the Russian Academy of Sciences, Moscow, Russia, registration number 4174/1

New mineral proposals approved in December 2011

IMA No. 2011-077
Thermessaite-(NH₄)
(NH₄)₂AlF₃(SO₄)
La Fossa crater, Vulcano island, Italy
Anna Garavelli*, Donatella Mitolo, Daniela Pinto
*E-mail: a.garavelli@geomin.uniba.it
Structurally related to guentherblassite and umbrianite
Orthorhombic: Pmmm; structure determined
Type material is deposited in the collections of the C.L. Garavelli Museum in the Dipartimento di Scienze della Terra e Geoambientali, Università degli Studi di Bari “Aldo Moro”, Italy, sample number 15/nm-V28
IMA No. 2011-081
Laptevite-(Ce)
Ca₆(Fe²⁺,Mn²⁺)Y₃REE₇(SiO₄)₃(PO₄)(B₃Si₃O₁₈)(BO₃)F₁₁
Dara-i-Pioz glacier moraine, Alai mountain range, Tien-Shan, Garmskii district, North Tajikistan (39°30'N 70°40'E)
A.A. Agakhanov*, L.A. Pautov, Y. Uvarova, V.Y. Karpenko, E.V. Sokolova and F.C. Hawthorne
*E-mail: pla@fmm.ru
Structurally related to structurally related to the okanoganite–vicanite group
Hexagonal: R₃m; structure determined
a = 10.804(2), c = 27.726(6) Å
4.41(29), 3.13(26), 3.03(100), 2.982(85), 2.954(60), 2.689(40), 1.797(31), 1.770(21)
Type material is deposited in the collections of the Fersman Mineralogical Museum of the Russian Academy of Sciences, Moscow, Russia, registration number 4195/1

IMA No. 2011-083
Osumilite-(Mg)
KMg₂Al₃(Al₂Si₁₀)O₃₀
Bellerberg, Eastern Eifel area, Rheinland-Pfalz, Germany
Nikita V. Chukanov*, Igor V. Pekov, Ramiza K. Rastsvetaeva, Sergey M. Aksenov, Dmitrii I. Belakovskiy, Willi Schüller and Bernd Ternes
*E-mail: chukanov@icp.ac.ru
Mg analogue of osumilite
Hexagonal: P6₃/mmc; structure determined
a = 10.0959(2), c = 14.3282(1) Å
7.21(37), 5.538(36), 5.064(85), 4.137(45), 3.736(43), 3.234(100), 2.932(42), 2.767(51)
Type material is deposited in the collections of the Fersman Mineralogical Museum of the Russian Academy of Sciences, Moscow, Russia, registration number 4195/1

IMA No. 2011-084
Witzkeite
Na₅K₂Ca(NO₃)₂(SO₄)₄·2H₂O
Punta de Lobos, Tarapacá region, Chile (21°12'S 70°05'W)
Fabrizio Nestola*, Fernando Cámara, Nikita V. Chukanov, Daniel Atencio, José M.V. Coutinho, Reynaldo R. Contreira Filho and Gunnar Färber
*E-mail: fabrizio.nestola@unipd.it
New structure type
Monoclinic: Cc; structure determined
a = 24.902(2), b = 5.3323(4), c = 17.246(1) Å, β = 94.281(7)°
12.377(100), 4.134(19), 3.100(24), 2.989(7), 2.851(6), 2.689(9), 2.482(12), 2.068(54)
Type material is deposited in the collections of the Mineralogical Museum of the University of Padova, Padova, Italy, catalogue number MMP M10009

IMA No. 2011-085
Starovaite
KCu₅O(VO₄)₃
Yadovitaya fumarole, Tolbachik volcano, Kamchatka Peninsula, Kamchatka Oblast’, Far-Eastern Region, Russia (55°41'N 160°14'E)
Igor V. Pekov*, Michael E. Zelenski, Vasiliy O. Yapaskurt, Yury S. Polekhovsky and Mikhail N. Murashko
*E-mail: igorpekov@mail.ru
Known structure type
Triclinic: P1
a = 6.08(4), b = 8.26(5), c = 10.71(6) Å, α = 97.8(1), β = 92.4(1), γ = 90.4(1)°
10.65(32), 8.18(46), 3.047(41), 2.745(47), 2.526(100), 2.322(98), 1.867(25), 1.410(23)
Type material is deposited in the collections of the Fersman Mineralogical Museum of the Russian Academy of Sciences, Moscow, Russia, registration number 4196/1
Zaccariniite
RhNiAs
Loma Peguera, Dominican Republic (18.9900523°N 70.322982°W)
Anna Vymazalová*, František Laufek, Milan Drábek, Chris J. Stanley, Ronald J. Bakker, Raul Bermejo, Giorgio Garuti, Oscar Thalhammer, Joaquín A. Proenza and Francisco Longo
*E-mail: anna.vymazalova@geology.cz

Known structure type
Tetragonal: P4/nmm
a = 3.5496(1), c = 6.1578(2) Å
2.326(97), 2.053(56), 1.945(100), 1.776(58),
1.775(83), 1.256(86), 1.164(60), 0.973(69)

Type material is deposited in the collections of the Mineralogical Museum of Leoben, Peter Tunner Strasse 5, Leoben, Austria, catalogue number 8241


Piemontite-(Pb)
CaPbAl₂Mn³⁺[Si₂O₇][SiO₄]O(OH)
Mixed Series formation, Babuna valley, 40 km SW of Veles, Nežilovo village, Jacupica Mountains, Macedonia
Nikita V. Chukanov*, Dmitriy A. Varlamov, Fabrizio Nestola, Dmitriy Belakovskiy, Jörg Goettlicher, Sergey Britvin, Arianna Lanza and Simeon Jancev
*E-mail: chukanov@icp.ac.ru

Epidote group
Monoclinic: C2/m; structure determined
a = 8.938(4), b = 17.43(3), c = 7.56(1) Å, β = 94.06(15)°
12.66(100), 7.60(6), 5.00(10), 4.70(10), 4.33(7),
3.215(4), 3.151(4), 2.887(5)

Type material is deposited in the collections of the Fersman Mineralogical Museum of the Russian Academy of Sciences, Moscow, Russia, catalogue number 92988

How to cite: Pekov, I.V., Chukanov, N.V., Varlamov, I., Vapaskurt, Vyacheslav S. Rusakov, Dmitry I. Belakovskiy, Anna G. Turchkova, Panagiotis Voudouris, Athanasios Katerinopoulos and Andreas Magganas
*E-mail: IgorPekov@mail.ru

Related to kaňkite
Monoclinic: C2, Cm or C2/m
a = 18.53(4), b = 17.43(3), c = 7.56(1) Å, β =
94.06(15)°
12.66(100), 7.60(6), 5.00(10), 4.70(10), 4.33(7),
3.215(4), 3.151(4), 2.887(5)

Type material is deposited in the collections of the Fersman Mineralogical Museum of the Russian Academy of Sciences, Moscow, Russia, catalogue number 92988

IMA No. **2011-092**

Kangite

(Sc, Ti, Al, Zr, Mg, Ca, □)2O3

Allende meteorite

Chi Ma*, Oliver Tschauner, George Rossman and Wenjun Liu

*E-mail: chi@gps.caltech.edu

Bixbyite group

Cubic: $Ia\overline{3}$; structure determined

$a = 9.842(1)\ \text{Å}$

4.019(16), 2.842(100), 2.461(10), 2.099(15), 1.931(75), 1.740(51), 1.519(29), 1.484(23)

Holotype material in section USNM 7555 is housed in the collections of the Smithsonian Institution’s National Museum of Natural History, Washington DC, USA


IMA No. **2011-093**

Wopmayite

$\text{Ca}_6\text{Na}_3\square\text{Mn}((\text{PO}_4)_3(\text{PO}_3\text{OH}))_4$

Tanco mine, Bernic Lake, Manitoba, Canada

Mark A. Cooper, Robert Ramik, Frank C. Hawthorne*, Neil A. Ball, Yassir A. Abdu and Kimberly T. Tait

*E-mail: frank_hawthorne@umanitoba.ca

Structurally related to whitlockite

Rhombohedral: $R3c$; structure determined

$a = 10.3926(2), c = 37.1694(9)\ \text{Å}$

8.017(31), 6.421(32), 5.166(33), 3.425(29), 3.186(88), 2.858(100), 2.736(27), 2.589(68)

Type material is deposited in the collections of the Department of Natural History, Royal Ontario Museum, Toronto, Ontario, Canada, catalogue number M54948
