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

NEWSLETTER 8

New minerals and nomenclature modifications approved in 2011

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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

NEW MINERAL PROPOSALS APPROVED IN JANUARY 2011

IMA No. **2010-045**
Hezuolinite
$(Sr,REE)_4Zr(Ti,Fe)_4Si_4O_{22}$

DOI: 10.1180/minmag.2011.075.2.289

Saima alkaline intrusion, Liaoning Province, China (124º12′E 41º00′N)
Zhuming Yang*, Kuishou Ding, Gerald Giester and Ekkehart Tillmanns
*E-mail: yangzhm@mail.igcas.ac.cn
Perrierite–chevkinite group
Monoclinic: *C*2/*m*; structure determined
a = 13.973(3), b = 5.6984(11), c = 11.988(2) Å, β = 114.10(3)º
3.47(40), 3.02(90), 2.98(100), 2.84(70),

2.72(50), 2.51(50), 2.18(80), 1.96(90)
Type material is deposited in the collections of the Museum of Institute of Geology and Geophysics, Chinese Academy of Sciences, registration number KDX016
How to cite: Yang, Z., Ding, K., Giester, G. and Tillmanns, E. (2011) Hezuolinite, IMA 2010-045. CNMNC Newsletter No. 8, April 2011, page 289; *Mineralogical Magazine*, **75**, 289–294.

IMA No. **2010-060**
Allanite-(Nd)
$CaNdAl_2Fe^{2+}(SiO_4)(Si_2O_7)O(OH)$
NYF granite pegmatite near Åskagen, Värmland, Sweden
Radek Škoda*, Jan Cempírek, Jan Filip and Milan Novák
*E-mail: rskoda@sci.muni.cz
Epidote group
Monoclinic: $P2_1/m$; structure determined
a = 8.8897(5), b = 5.7308(2), c = 10.1010(6) Å, β = 115.166(7)º
3.508(46), 2.893(100), 2.865(45), 2.698(60), 2.607(60), 2.164(35), 2.117(38), 1.659(43)
Type material is deposited in the collections of the Department of Mineralogy and Petrology of the National Museum in Prague, Czech Republic, catalogue number P1P 1/2010
How to cite: Škoda, R., Cempírek, J., Filip, J. and Novák, M. (2010) Allanite-(Nd), IMA 2010-060. CNMNC Newsletter No. 8, April 2011, page 290; *Mineralogical Magazine*, **75**, 289–294.

IMA No. **2010-063**
Pavlovskyite
$Ca_8(SiO_4)_2(Si_3O_{10})$
Birkhin gabbro massif, Baikal Lake, Eastern Siberia, Russia (52º42′N 106º30′E) and xenolith number 3, Upper Chegem caldera, Lakargi, Kabardino-Balkaria, North Caucasus, Russia (43º17′N 43º6′E)
E.V. Galuskin*, B. Lazic, V.B. Savelyeva, T. Armbruster, I.O. Galuskina, A.E. Zadov, P. Dzierżanowski, N.N. Pertsev and V.M. Gazeev
*E-mail: evgeny.galuskin@us.edu.pl
Known synthetic phase
Orthorhombic: *Pbcn*; structure determined
a = 5.0849(1), b = 11.4116(2), c = 28.6304(8) Å
3.607(39), 3.046(67), 2.835(100), 2.689(70), 2.438(18), 1.948(38), 1.898(18), 1.805(14)
The holotype (Birkhin) is deposited in the collections of the Fersman Mineralogical Museum of the Russian Academy of Science, catalogue number 4023/1. A co-type specimen (Lakargi) is deposited under catalogue number 4024/1
How to cite: Galuskin, E.V., Lazic, B., Savelyeva, V.B., Armbruster, T., Galuskina, I.O., Zadov, A.E., Dzierżanowski, P., Pertsev, N.N. and Gazeev, V.M. (2011) Pavlovskyite, IMA 2010-063. CNMNC Newsletter No. 8, April 2011, page 290; *Mineralogical Magazine*, **75**, 289–294.

IMA No. **2010-064**
Bitikleite-(SnFe)
$Ca_3(SnSb^{5+})Fe_3^{3+}O_{12}$
Xenolith number 1, Upper Chegem caldera, Lakargi, Kabardino-Balkaria, North Caucasus, Russia (43º17′N 43º6′E)
I.O. Galuskina*, E.V. Galuskin, J. Kusz, P. Dzierżanowski, K. Prusik, V.M. Gazeev, N.N. Pertsev and L. Dubrovinsky
*E-mail: irina.galuskina@us.edu.pl
Garnet group
Cubic: $Ia\bar{3}d$
a = 12.536(3) Å
4.432(87), 3.134(84), 2.803(47), 2.559(95), 1.982(27), 1.675(100), 1.402(35), 1.336(29)
Type material is deposited in the collections of the Fersman Mineralogical Museum of the Russian Academy of Sciences, catalogue number 4025/1
How to cite: Galuskina, I.O., Galuskin, E.V., Kusz, J., Dzierżanowski, P., Prusik, K., Gazeev, V.M., Pertsev, N.N. and Dubrovinsky, L. (2011) Bitikleite-(SnFe), IMA 2010-064. CNMNC Newsletter, April 2011, page 290; *Mineralogical Magazine*, **75**, 289–294

IMA No. **2010-066**
Ferriallanite-(La)
$Ca(La,Ce,Th)(Fe^{3+},Al)(Al,Fe^{3+})(Fe^{2+},Mn,Ti,Mg)(SiO_4)(Si_2O_7)O(OH)$
In den Dellen pumice quarries, Niedermendig, Mendig, Laach Lake volcanic complex, Eifel Mountainss, Rhineland-Palatinate, Germany
Uwe Kolitsch*, Stuart J. Mills, Ritsuro Miyawaki and Günter Blaß
*E-mail: uwe.kolitsch@nhm-wien.ac.at
Epidote group
Monoclinic: $P2_1/m$; structure determined
a = 8.938(2), b = 5.789(1), c = 10.153(2) Å, β = 114.54(3)º
9.22(19), 7.96(34), 3.53(38), 2.92(100), 2.72(50), 2.63(36), 2.16(17), 1.639(34)
The holotype is deposited in the collections of

the Naturhistorisches Museum, Wien (Natural History Museum, Vienna), registered number N 8164, and the co-type (probe mount) is preserved in the collections of Museum Victoria, registered number M49750

How to cite: Kolitsch, U., Mills, S.J., Miyawaki, R. and Blaβ, G. (2011) Ferriallanite-(La), IMA 2010-066. CNMNC Newsletter No. 8, April 2011, page 290; *Mineralogical Magazine*, **75**, 289–294.

IMA No. **2010-067**

Fluor-schorl

$NaFe^{2+}_3Al_6Si_6O_{18}(BO_3)_3(OH)_3F$

Alluvial tin deposits near Steinberg, Zschorlau, Erzgebirge, Saxony, Germany and in pegmatites neard Grasstein, Trentino, South Tyrol, Italy

Andreas Ertl*, Uwe Kolitsch, M. Darby Dyar, Hans-Peter Meyer, Darrell J. Henry, George R. Rossman, Markus Prem, Thomas Ludwig, Lutz Nasdala, Christian L. Lengauer and Ekkehart Tillmanns

*E-mail: andreas.ertl@a1.net

Tourmaline group

Trigonal: *R*3*m*; structure determined

a = 16.005(2), *c* = 7.176(1) Å

6.361(84), 4.225(39), 3.995(100), 3.470(67), 2.959(51), 2.584(76), 2.045(24), 1.454(26)

Holotype material (no. 8165: fluor-schorl from Zschorlau; no. 8166: fluor-schorl from Grasstein) is deposited in the collections of the Naturhistorisches Museum, Austria

How to cite: Ertl, A., Kolitsch, U., Darby Dyar, M., Meyer, H.-P., Henry, D.J., Rossman, G.R., Prem, M., Ludwig, T., Nasdala, L., Lengauer, C.L. and Tillmanns, E. (2011) Fluor-schorl, IMA 2010-067. CNMNC Newsletter No. 8, April 2011, page 291; *Mineralogical Magazine*, **75**, 289–294.

IMA No. **2010-068**

Mejillonesite

$NaMg_2(PO_3OH)(PO_4)H(OH)\cdot 2H_2O$

Cerro Mejillones (23º05′44.56′′S 70º30′53.78′′W), Mejillones Peninsula, Mejillones, Antofagasta Region, Chile

Daniel Atencio*, Nikita V. Chukanov, Fabrizio Nestola, Thomas Witzke, José M.V. Coutinho, Aleksandr E. Zadov, Reynaldo R. Contreira Filho and Gunnar Färber

*E-mail: datencio@usp.br

New structure type

Orthorhombic: *Pbca*; structure determined

a = 16.295(1), *b* = 13.001(2), *c* = 8.434(1) Å

8.095(100), 6.846(9), 6.470(8), 3.317(5), 2.959(5), 2.706(12), 2.157(19), 2.153(9)

Type material is deposited in the Museu de Geociências, Instituto de Geociências, Universidade de São Paulo, São Paulo, Brazil, catalogue number DR712, and in the Fersman Mineralogical Museum of the Russian Academy of Sciences, Moscow, Russia, registration number 4043/1

How to cite: Atencio, D., Chukanov, N.V., Nestola, F., Witzke, T., M.V. Coutinho, J.M.V., Zadov, A.E., Contreira Filho, R.R. and Färber, G. (2011) Mejillonesite, IMA 2010-068. CNMNC Newsletter No. 8, April 2011, page 291; *Mineralogical Magazine*, **75**, 289–294.

IMA No. **2010-069**

Arsenohopeite

$Zn_3(AsO_4)_2\cdot 4H_2O$

Tsumeb mine, Namibia

Franz Neuhold*, Uwe Kolitsch, Heinz-Jürgen Bernhardt and Christian L. Lengauer

*E-mail: franzneuhold@gmx.net

Arsenate analogue of hopeite

Orthorhombic: *Pnma*; structure determined

a = 10.804(2), *b* = 19.003(4), *c* = 5.112(1) Å

9.502(100), 5.196(31), 4.937(50), 4.490(28), 4.110(48), 3.978(28), 3.567(31), 2.926(95)

Type material is deposited in the in the collections of the Natural History Museum Vienna, Vienna, Austria, catalogue number N 8167

How to cite: Neuhold, F., Kolitsch, U., Bernhardt, H.-J. and Lengauer, C.L. (2011) Arsenohopeite, IMA 2010-069. CNMNC Newsletter No. 8, April 2011, page 291; *Mineralogical Magazine*, **75**, 289–294.

IMA No. **2010-070**

Vladimirivanovite

$Na_6Ca_2[Al_6Si_6O_{24}](SO_4,S_3,S_2,Cl)_2\cdot H_2O$

Tultuy (or Tultui) deposit, Tultuy River, Irkutsk Region, Russia (51º40′58′′N 103º26′24′′E), and the Luadzhvardarite deposit, Luadzhvardara River, southwestern Pamirs, Republic of Tajikistan (37º5′24′′N 71º45′E)

A.N. Sapozhnikov*, E.V. Kaneva, D.I. Cherepanov, L.F. Suvorova, V.I. Levitsky, L.A. Ivanova and L.Z. Reznitsky

*E-mail: sapozh@igc.irk.ru

Sodalite group

Orthorhombic: *Pnaa*; structure determined

a = 9.066(3), *b* = 12.851(3), *c* = 38.558(10) Å

6.61(5), 6.43(11), 3.710(100), 2.623(30), 2.273(6), 2.141(14), 1.783(9), 1.606(6)

Type material is deposited in the in the collections of the Mineralogical Museum of Saint-Petersburg State University, Saint Petersburg, Russia, catalogue number 1/19366
How to cite: Sapozhnikov, A.N., Kaneva, E.V., Cherepanov, D.I., Suvorova, L.F., Levitsky, V.I., Ivanova, L.A. and Reznitsky, L.Z. (2011) Vladimirivanovite, IMA 2010-070. CNMNC Newsletter No. 8, April 2011, page 291; *Mineralogical Magazine*, **75**, 289–294.

IMA No. **2010-071**
Långbanshyttanite
$Pb_2Mn_2Mg(AsO_4)_2(OH)_4{\cdot}6H_2O$
Långban mine, Sweden
Nikita V. Chukanov*, Igor V. Pekov, Erik Jonsson, Natalia V. Zubkova, Yaroslav E. Filinchuk, Dmitriy I. Belakovsky and Dmitriy Yu. Pushcharovsky
*E-mail: chukanov@icp.ac.ru
New structure type
Triclinic: $P\bar{1}$; structure determined
a = 5.0528(10), b = 5.7671(6), c = 14.617(3) Å, α = 85.656(14), β = 82.029(17), γ = 88.728(13)º
14.48(100), 7.21(43), 4.969(34), 4.798(28), 3.792(20), 3.571(54), 2.857(45), 2.800(34)
Type material is deposited in the in the collections of the Fersman Mineralogical Museum of the Russian Academy of Sciences, Moscow, Russia, registration number 4032/1, and the Swedish Museum of Natural History, Stockholm, Sweden, catalogue number NRM 20100076
How to cite: Chukanov, N.V., Pekov, I.V., Jonsson, E., Zubkova, N.V., Filinchuk, Y.E., Belakovsky, D.I. and Pushcharovsky, D.Y. (2011) Långbanshyttanite, IMA 2010-071. CNMNC Newsletter No. 8, April 2011, page 292; *Mineralogical Magazine*, **75**, 289–294.

IMA No. **2010-072**
Rusinovite
$Ca_{10}(Si_2O_7)_3Cl_2$
Upper Chegem caldera, Kabardino-Balkaria, North Caucasus, Russia (43º17′N 43º6′E)
E.V. Galuskin*, I.O. Galuskina, B. Lazic, T. Armbruster, A.E. Zadov, T. Krzykawski, K. Banasik, V.M. Gazeev and N.N. Pertsev
*E-mail: evgeny.galuskin@us.edu.pl
New structure type
Orthorhombic: *Cmcm*; structure determined
a = 3.7617(2), b = 16.9385(8), c = 17.3196(9) Å
8.471(39), 3.209(33), 3.134(25), 3.082(100), 3.030(79), 2.946(43), 2.889(74), 2.537(74)
Type material is deposited in the in the collections of the Fersman Mineralogical Museum of the Russian Academy of Sciences, Moscow, Russia, registration number 4022/1
How to cite: Galuskin, E.V., Galuskina, I.O., Lazic, B., Armbruster, T., Zadov, A.E., Krzykawski, T., Banasik, K., Gazeev, V.M. and Pertsev, N.N. (2011) Rusinovite, IMA 2010-072. CNMNC Newsletter No. 8, April 2011, page 292; *Mineralogical Magazine*, **75**, 289–294.

NEW MINERAL PROPOSALS APPROVED IN FEBRUARY 2011

IMA No. **2010-059**
Ernstburkeite
$Mg(CH_3SO_3)_2{\cdot}12H_2O$
In an ice core from the Dome Fuji station, East Antarctica (77º19′S 39º42′E)
Toshimitsu Sakurai, Fatma Elif Genceli Güner* and Takeo Hondoh
*E-mail: f.e.genceli@tudelft.nl
Known synthetic compound
Trigonal: $R\bar{3}$
a = 9.2715(1), c = 21.1298(4) Å
7.04(42), 6.39(39), 4.64(100), 4.41(44), 3.87(89), 3.75(31), 3.74(35)
Type material is deposited at the Institute of Low Temperature Science at Hokkaido University, Sapporo, Japan, catalogue number 81616
How to cite: Sakurai, T., Genceli Güner, F.E. and Hondoh, T. (2011) Ernstburkeite , IMA 2010-059. CNMNC Newsletter No. 8, April 2011, page 292; *Mineralogical Magazine*, **75**, 289–294.

IMA No. **2010-073**
Irinarassite
$Ca_3Sn_2Al_2SiO_{12}$
Verkhni Chegem caldera, Kabardino-Balkaria, North Caucasus, Russia (43º17′N 43º6′E)
I.O. Galuskina*, E.V. Galuskin, K. Prusik, V.M. Gazeev, N.N. Pertsev and P. Dzierżanowski
*E-mail: irina.galuskina@us.edu.pl
Garnet group
Cubic: $Ia\bar{3}d$
a = 12.50(3) Å
4.419(65), 3.125(60), 2.795(47), 2.552(88), 1.976(27), 1.670(100), 1.563(22), 1.333(26)
Type material is deposited in the in the collections of the Fersman Mineralogical Museum of the Russian Academy of Sciences,

Moscow, Russia, registration number 4026/1
How to cite: Galuskina, I.O., Galuskin, E.V., Prusik, K., Gazeev, V.M., Pertsev, N.N. and Dzierżanowski, P. (2011) Irinarassite, IMA 2010-073. CNMNC Newsletter No. 8, April 2011, page 292; *Mineralogical Magazine*, **75**, 289–294.

IMA No. **2010-074**
Wassonite
TiS
Yamato 691 enstatite chondrite, Queen Fabiola Mountains, Antarctica
Keiko Nakamura-Messenger*, Simon. J. Clemett, Alan Rubin, Byeon-Gak Choi, Lindsay P. Keller, Shouliang Zhang, Zia Rahman and Katsunari Oikawa
*E-mail: keiko.nakamura-1@nasa.gov
Known structure type
Rhombohedral: $R\bar{3}m$
a = 3.42±0.07, c = 26.50±0.53 Å
8.833(10), 2.944(5), 2.944(36), 2.891(4), 2.704(10), 2.586 (45), 2.333(28), 2.208(100)
Type material is deposited in the in the collections of the Astromaterials Curation Facility, Antarctic Meteorite Curatorial Laboratory, National Aeronautics and Space Administration Johnson Space Center, Houston, Houston Texas, USA, registered number Y 691,79-1
How to cite: Nakamura-Messenger, K., Clemett, S.J., Rubin, A., Choi, B.-G., Keller, L.P., Zhang, S., Rahman, Z. and Oikawa, K. (2011) Wassonite, IMA 2010-074. CNMNC Newsletter No. 8, April 2011, page 293; *Mineralogical Magazine*, **75**, 289–294.

IMA No. **2010-075**
Galuskinite
$Ca_7(SiO_4)_3(CO_3)$
Birkhin gabbro massif, Eastern Siberia, Russia (52.7ºN 106.5ºE)
B. Lazic, T. Armbruster*, V.B. Savelyeva, A.E. Zadov, N.N. Pertsev and P. Dzierżanowski
*E-mail: Ambruster@krist.unibe.ch
New structure type
Monoclinic: $P2_1/c$; structure determined
a = 18.7872(5), b = 6.7244(2), c = 10.4673(2) Å, β = 90.788(1)º
18.785(56), 2.7338(98), 2.7141(78), 2.7032(100), 2.7030(85), 2.6706(100), 2.6166(82), 1.9251(53)
Type material is deposited in the in the collections of the Fersman Mineralogical Museum of the Russian Academy of Sciences, catalogue number 4050/1 and in the collections of the Natural History Museum, Bern, catalogue number NMBE-40811
How to cite: Lazic, B., Armbruster, T., Savelyeva, V.B., Zadov, A.E., Pertsev, N.N. and Dzierżanowski, P. (2011) Galuskinite, IMA 2010-075. CNMNC Newsletter No. 8, April 2011, page 293; *Mineralogical Magazine*, **75**, 289–294.

IMA No. **2010-077**
Eldragónite
$Cu_6BiSe_4(Se_2)$
El Dragón mine, Quijarro Province, Department of Potosi, Bolivia (19º49.15′S 65º55′W)
Mark A. Cooper, Yves Moëlo, Werner H. Paar*, Johann G. Raith, Ralph Rowe, Andrew C. Roberts, J. Stirling and Chris J. Stanley
*E-mail: paarwerner@aon.at
New structure type
Orthorhombic: *Pmcn*; structure determined
a = 4.0341(4), b = 27.056(3), c = 9.5559(9) Å
6.547(58), 3.579(100), 3.180(77), 3.165(56), 3.075(84), 2.011(53), 1.920(76), 1.846(52)
Type material is deposited in the collections of the Canadian Museum of Nature, Ottawa, Canada (holotype; crystal used for investigation of the crystal structure), registration number CMNMC 86154, and in the collections of the Department of Materials Engineering and Physics, University of Salzburg, Austria (cotypes), registration numbers M 17.001, M 17.002 and M 17.003
How to cite: Cooper, M.A., Moëlo, Y., Paar, W.H., Raith, J.G., Rowe, R., Roberts, A.C., Stirling, J. and Stanley, C.J. (2011) Eldragónite, IMA 2010-077. CNMNC Newsletter No. 8, April 2011, page 293; *Mineralogical Magazine*, **75**, 289–294

IMA No. **2010-078**
Jacutingaite
Pt_2HgSe_3
Cauê iron-ore deposit, Itabira district, Minas Gerais, Brazil
Anna Vymazalová*, František Laufek, Milan Drábek, Alexandre Raphael Cabral, Jakub Haloda, Tamara Sidorinová, Bernd Lehmann, Henry Francisco Galbiatti and Jan Drahokoupil
*E-mail: anna.vymazalova@geology.cz
Known structure type
Trigonal: $P\bar{3}m1$; structure determined
a = 7.3477(2), c = 5.2955(1) Å
5.292(100), 2.727(16), 2.444(10), 2.035(18),

1.765(37), 1.324(11), 1.045(11)
Type material is deposited in the collections of GeoMuseum "Geosammlung" at the Technical University of Clausthal, Adolph Roemer Strasse 2A, D-38678 Clausthal-Zellerfeld, Germany, catalogue number 26580
How to cite: Vymazalová, A., Laufek, F., Drábek, M., Cabral, A.R., Haloda, J., Sidorinová, T., Lehmann, B., Galbiatti, H.F. and Drahokoupil, J. (2011) Jacutingaite, IMA 2010-078. CNMNC Newsletter No. 8, April 2011, page 293; *Mineralogical Magazine*, **75**, 289–294.

IMA No. **2010-080**
Ferrotochilinite
$6FeS{\cdot}5Fe(OH)_2$
No. 1 Shaft, Oktyabr'sky mine, Talnakh, Norilsk area, Krasnoyarsk Krai, Siberia, Russia
Igor V. Pekov*, Evgeny V. Sereda, Yury S. Polekhovsky, Sergey N. Britvin, Nikita V. Chukanov, Vasily O. Yapaskurt and Igor A. Bryzgalov
*E-mail: igorpekov@mail.ru
Fe(II) analogue of tochilinite
Monoclinic: *C*2/*m*, *Cm* or *C*2
a = 5.463(5), *b* = 15.865(17), *c* = 10.825(12) Å, β = 93.7(1)°
10.83(13), 5.392(100), 3.281(7), 2.777(7), 2.696 (12), 2.524(12), 2.152(8), 1.837(11)
Type material is deposited in the collections of the Fersman Mineralogical Museum of the Russian Academy of Sciences, Moscow, Russia, registration number 4058/1
How to cite: Pekov, I.V., Sereda, E.V., Polekhovsky, Y.S., Britvin, S.N., Chukanov, N.V., Yapaskurt, V.O. and Bryzgalov, I.A. (2011) Ferrotochilinite, IMA 2010-080. CNMNC Newsletter No. 8, April 2011, page 294; *Mineralogical Magazine*, **75**, 289–294.

IMA No. **2010-081**
Chukhrovite-(Ca)
$Ca_{4.5}Al_2(SO_4)F_{13}{\cdot}12H_2O$
Val Cavallizza Pb-Zn(Ag) mine, SW of Cavagnano, Cuasso al Monte, Varese province, Lombardy, Italy (45º54′01″N 8º51′41″E)
Pietro Vignola*, Frédéric Hatert, Olaf Medenbach, Danilo Bersani, Valeria Diella, Paolo Gentile and Andrea Risplendente
*E-mail: pietro.vignola@idpa.cnr.it
Chukhrovite group
Cubic: $Fd\bar{3}$; structure determined
a = 16.749(1) Å
9.665(100), 5.921(31), 5.053(16), 4.190(10), 3.226(15), 2.556(10), 2.182(12), 1.915(17)
Type material is deposited in the collections of the Museo Civico di Storia Naturale, Milano, Italy, catalogue number M37901, and the Laboratory of Mineralogy, University of Liège, Belgium, catalogue number 20383
How to cite: Vignola, P., Hatert, F., Medenbach, O., Bersani, D., Diella, V., Gentile, P. and Risplendente, A. (2011) Chukhrovite-(Ca), IMA 2010-081. CNMNC Newsletter No. 8, April 2011, page 294; *Mineralogical Magazine*, **75**, 289–294.

IMA No. **2010-082**
Angarfite
$NaFe_5^{3+}(PO_4)_4(OH)_4{\cdot}4H_2O$
Angarf-South pegmatite, Tazenakht, Ouarzazate Province, Souss-Massa-Draâ Region, Morocco (43º39′30N 2º29′58E)
Anthony R. Kampf*, Stuart J. Mills, Robert M. Housley and Georges Favreau
*E-mail: akampf@nhm.org
New structure type
Orthorhombic: $C222_1$; structure determined
a = 12.7997(3), *b* = 17.9081(4), *c* = 8.2112(6) Å
10.463(43), 9.016(100), 6.459(42), 3.731(27), 3.355(51), 3.026(29), 1.926(33), 1.463(36)
Type material is deposited in the collections of the Natural History Museum of Los Angeles County, Los Angeles, USA, catalogue numbers 63428 and 63429
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IMA LIST OF MINERALS – AN INTERIM UPDATED LIST OF IMA-APPROVED MINERALS

A list of newly approved minerals is now available (as a pdf file) from the IMA-CNMNC website (http://pubsites.uws.edu.au/ima-cnmnc/). This interim list contains names and data for minerals which have been approved, discredited, redefined and renamed since the March 2009 listing currently on the IMA website, and for which names and data have been published. It is intended to update this interim list periodically while work continues on a new revised and comprehensive master list of all IMA-approved and grandfathered (i.e. inherited from before 1960) minerals.