

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

NEWSLETTER 6

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

NEW MINERAL PROPOSALS APPROVED IN OCTOBER 2010

IMA No. 2010-041

Bariopharmacoalumite

Ba_{0.5}Al₄[(AsO₄)₃(OH)₄]·4H₂O

Cap Garonne mine, Var, Provence-Alpes-Côte d'Azur, France

Stuart J. Mills*, Mike S. Rumsey, Georges Favreau, John Spratt and Maurizio Dini

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Pharmacosiderite group

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

$a = 7.772(2) \text{ \AA}$

7.759(100), 5.485(27), 4.454(18), 3.878(27), 3.456(14), 3.159(16), 2.738(16), 2.452(12)

Type material is deposited in the collections of the Natural History Museum, London, UK, registration number BM 2010,82

How to cite: Mills, S.J., Rumsey, M.S., Favreau, G., Spratt, J. and Dini, M. (2010) Bariopharmacoalumite, IMA 2010-041. CNMNC Newsletter, December 2010, page 941; *Mineralogical Magazine*, **74**, 941–942

IMA No. 2010-042

Icosahedrite

 $\text{Al}_{63}\text{Cu}_{24}\text{Fe}_{13}$

Iomrautvaam Massif, Listvenitovy River, Khatyrka ultrabasic zone, Koryak Upland, Chukotka Oblast, Russia

Luca Bindi*, Paul J. Steinhardt, Nan Yao and Peter J. Lu

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Known quasicrystal

Icosahedral: $Fm\bar{3}5$ $a_{6D} = 12.64 \text{ \AA}$ (six-dimensional notation)

3.75(20), 3.41(25), 3.24(20), 2.451(10), 2.108(90), 2.006(100), 1.452(15), 1.238(30);

note that grains do not diffract as single crystals

Type material is deposited in the Mineralogical Collection of the Museo di Storia Naturale, Università di Firenze, Firenze, Italy, catalogue number 46407/G

How to cite: Bindi, L., Steinhardt, P.J., Yao, N. and Lu, P.J. (2010) Icosahedrite, IMA 2010-042. CNMNC Newsletter, December 2010, page 942; *Mineralogical Magazine*, **74**, 941–942

IMA No. 2010-043

Törnroosite

 $\text{Pd}_{11}\text{As}_2\text{Te}_2$

Inari commune, Lemmenjoki area, Miessijoki River, Finland (68°42'30"N 25°42'24"E)

Kari Kojonen*, Andrew M. McDonald, Chris J. Stanley and Bo Johanson

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Isostructural with isomertieite

Cubic: $Fd\bar{3}m$ $a = 12.3530(4) \text{ \AA}$

2.519(11), 2.376(90), 2.182(100), 1.862(13), 1.608(11), 1.544(14), 1.261(13), 0.825(11)

Type material is deposited in the collections of the Natural History Museum, London, UK, registration number BM 2010,100

How to cite: Kojonen, K., McDonald, A.M., Stanley, C.J. and Johanson, B. (2010) Törnroosite, IMA 2010-043. CNMNC Newsletter, December 2010, page 942; *Mineralogical Magazine*, **74**, 941–942**NOMENCLATURE PROPOSALS APPROVED IN OCTOBER 2010****IMA 10-C:** The single-crystal X-ray structure of zajacite-(Ce) and the redefinition of zajacite-(Ce) as gagarinite-(Ce). Zajacite-(Ce) is discredited, and the mineral is renamed gagarinite-(Ce).**IMA 10-D:** A proposal to modify the names of jaguëite and angelaite. Jaguëite and angelaite are renamed jagüëite and ángelaite, respectively.