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IMA Commission on New Minerals, Nomenclature and Classification (CNMNC) – Newsletter 91

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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 (ideal formula)
- Mineral symbol
- 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 *European Journal of Mineralogy* on a routine basis, as well as being added month by month to the Commission's website. 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.

1 New mineral proposals approved in April 2026

IMA no. 2025-031b

Piilonenite-(Nd)
$NaNd(CO_3)_2(H_2O)_3$
Pii-Nd
Poudrette (Demix) quarry, Mont Saint-Hilaire, Quebec, Canada (45°33′46″ N, 73°08′30″ W)
Inna Lykova*, Ralph Rowe, Simon Teat, Glenn Poirier, and Stephanie Barnes
* E-mail: ilykova@nature.ca
New structure type
Orthorhombic: $P2_12_12_1$; structure determined
$a = 6.791(1)$, $b = 17.135(3)$ Å, $c = 6.436(1)$

8.59(100), 4.690(14), 4.529(7), 4.291(30), 4.123(7), 3.417(10), 3.175(17), 2.859(8)

Type material is deposited in the collections of the Canadian Museum of Nature, 240 McLeod Street, Ottawa, ON K2P 2R1, Canada, catalogue number CMNMC 93393

How to cite: Lykova, I., Rowe, R., Teat, S., Poirier, G., and Barnes, S.: Piilonenite-(Nd), IMA 2025-031b, in: CNMNC Newsletter 91, Eur. J. Mineral., 38, https://doi.org/10.5194/ejm-38-347-2026, 2026.

IMA no. 2025-101

Kristekite

$Cu_2(H_2O)_4(UO_2)(SeO_3)_3 \cdot 4H_2O$

Kik

In the mine dump of the shaft no. 11A, near Bytíz, Příbram ore district, Central Bohemia, Czech Republic (49°41′18.89″ N, 14°04′13.15″ E)

Jakub Plášil*, Pavel Škácha, Jiří Sejkora, Radek Škoda, and Radana Vrtišková

* E-mail: plasil@fzu.cz

Chemically related to marthozite

Monoclinic: $P2_1/m$; structure determined

$a = 6.3664(2)$, $b = 15.8932(4)$, $c = 8.1248(3)$ Å, $\beta = 91.437(2)°$

8.197(53), 7.293(100), 5.718(7), 4.100(40), 3.647(7), 3.247(7), 3.129(5), 2.974(9)

Type material is deposited in the collections of the Department of Mineralogy and Petrology, National Museum, Cirkusová 1740, 19300 Praha 9, Czech Republic, catalogue number P1P 46/2025

How to cite: Plášil, J., Škácha, P., Sejkora, J., Škoda, R., and Vrtišková, R.: Kristekite, IMA 2025-101, in: CNMNC Newsletter 91, Eur. J. Mineral., 38, https://doi.org/10.5194/ejm-38-347-2026, 2026.

IMA no. 2025-102

Magnesiochangesite-(Ce)

$(Ca_8Ce)\square Mg(PO_4)_7$

Mcgs-Ce

Lunar meteorite Pakepake005, discovered in the Taklamakan desert, Xinjiang, China (38°50′22″ N, 83°42′18″ E)

Yanjuan Wang*, Zengqian Hou, Xiaochao Che, Arianna E. Lanza, Fernando Cámara, Zhenyu Chen, Cheng Yue, Ze Liu, Qingqing Yin, Tao Long, Maxwell C. Day, Francesca Innocenzi, Lisa Santello, Anna Barbaro, Simone Molinari, Ziyao Wang, Junping Ren, Ran Zhang, Kai Qu, and Fabrizio Nestola*

* E-mail: wangyanjuan_cugb@foxmail.com, fabrizio.nestola@unipd.it

Cerite supergroup

Trigonal: $R3c$; structure determined

$a = 10.3813(4)$, $c = 37.278(1)$ Å

3.430(16), 3.190(16), 2.865(100), 2.591(39), 2.089(29), 1.878(12), 1.810(13), 1.715(20)

Type material is deposited in the collections of the Geological Museum of China, no. 16, Yangrou Hutong, Xisi, Beijing 100031, People's Republic of China, catalogue number GMCTM2025021

How to cite: Wang, Y., Hou, Z., Che, X., Lanza, A. E., Cámara, F., Chen, Z., Yue, C., Liu, Z., Yin, Q., Long, T., Day, M. C., Innocenzi, F., Santello, L., Barbaro, A., Molinari, S., Wang, Z., Ren, J., Zhang, R., Qu, K., and Nestola, F.: Magnesiochangesite-(Ce), IMA 2025-102, in: CNMNC Newsletter 91, Eur. J. Mineral., 38, https://doi.org/10.5194/ejm-38-347-2026, 2026.

2 New mineral proposals approved in May 2026

IMA no. 2025-072

Bernwoodite

$Ca_5TiAl_2Si_2O_{14}$

Bew

As inclusion in a diamond from the Rio Sorriso placer, Juina area, Mato Grosso, Brazil (11°19′59″ S, 59°10′59″ W)

Nester Korolev*, Ekaterina S. Kiseeva, Alena Aslandukova, George E. Harlow, Chi Ma, Yaakov Weiss, Alexander Kurnosov, Felix V. Kaminsky, and Leonid Dubrovinsky

* E-mail: nkorolev@amnh.org

Perovskite supergroup

Monoclinic: $C2/c$; structure determined

$a = 9.190(1)$, $b = 5.2594(4)$, $c = 21.846(4)$ Å, $\beta = 97.84(2)°$

2.647(100), 2.643(67), 2.189(17), 2.152(46), 1.522(56), 1.521(30), 1.183(18), 1.178(24)

Type material is deposited in the collections of the American Museum of Natural History, 200 Central Park West, New York, NY 10024-5102, USA, catalogue no. AMNH#115649

How to cite: Korolev, N., Kiseeva, E. S., Aslandukova, A., Harlow, G. E., Ma, C., Weiss, Y., Kurnosov, A., Kaminsky, F. V., and Dubrovinsky, L.: Bernwoodite, IMA 2025-072, in: CNMNC Newsletter 91, Eur. J. Mineral., 38, https://doi.org/10.5194/ejm-38-347-2026, 2026.

IMA no. 2025-093

Georgeliuite

$Ca_2Mn_3^{3+}O_2(AsO_4)_3(H_2O)_2 \cdot H_2O$

Geg

Jote mine, Pampa Larga district, Tierra Amarilla, Copiapó Province, Atacama Region, Chile (27°36′30″ S, 70°09′23″ W)

Xiangping Gu, Hexiong Yang*, Linfei Qiu, Guang Fan, Robert A. Jenkins, Ronald B. Gibbs, and Robert T. Downs

* E-mail: hyang@arizona.edu

The Mn^{3+} analogue of arseniosiderite
Monoclinic: *Cm*; structure determined
$a = 11.3112(9)$, $b = 20.163(1)$, $c = 8.9858(7)$ Å, $\beta = 100.539(7)°$
8.803(10), 5.734(19), 3.345(23), 3.241(26), 2.930(21), 2.803(61), 2.656(22), 2.520(20)
Type material is deposited in the collections of the University of Arizona Alfie Norville Gem & Mineral Museum, 115 N Church Ave Ste 121, Tucson, AZ 85701, USA, catalogue number 22747 (holotype), and the RRUFF Project, deposition number R250055 (cotype)
How to cite: Gu, X., Yang, H., Qiu, L., Fan, G., Jenkins, R. A., Gibbs, R. B., and Downs, R. T.: Georgeliuite, IMA 2025-093, in: CNMNC Newsletter 91, Eur. J. Mineral., 38, https://doi.org/10.5194/ejm-38-347-2026, 2026.

IMA no. 2025-095a

Sombrereteite
$NaCa_3(Al_7Si_9)O_{32}$
Som
Sombrerete iron meteorite, found in 1958 at Cerro del Sombreretillo, Zacatecas, Mexico (23°38′ N, 103°40′ W)
Xiangping Gu, Zuokai Ke, Hexiong Yang*, Kai Qu, Guanghua Liu, Yixuan Liu, Yizhou Chen, Ran Gao, Qun Ai, Shuting Huang, Baihui Ma, and Yang Liu
* E-mail: hyang@arizona.edu
Chemically, the sodium analogue of wodegongjieite
Monoclinic: *C*2/*c*; structure determined
$a = 10.2358(1)$, $b = 17.8056(3)$, $c = 14.9349(3)$ Å, $\beta = 90.420(1)°$
4.429(73), 3.816(99), 3.743(100), 3.351(36), 3.272(48), 2.854(68), 2.561(71), 1.866(21)
Type material is deposited in the collections of the Geological Museum of China, no. 16, Yangrou Hutong, Xisi, Beijing 100031, People's Republic of China, catalogue number GMCTM2025019
How to cite: Gu, X., Ke, Z., Yang, H., Qu, K., Liu, G., Liu, Y., Chen, Y., Gao, R., Ai, Q., Huang, S., Ma, B., and Liu, Y.: Sombrereteite, IMA 2025-095a, in: CNMNC Newsletter 91, Eur. J. Mineral., 38, https://doi.org/10.5194/ejm-38-347-2026, 2026.

IMA no. 2026-002

Leishmanite
$Ba(H_2O)_4[(UO_2)_3O_2(OH)_3]_2 \cdot 3H_2O$
Lhm
On the northern slope of the Grand Alou valley, south of the Dent de Nendaz (2463 m), Nendaz, Valais, Switzerland (46°08′40″ N, 7°17′37″ E)
Jakub Plášil*, Radek Škoda, Stefan Ansermet, and Nicolas Meisser
* E-mail: plasil@fzu.cz
Closely related to billietite
Orthorhombic: $Pmn2_1$; structure determined
$a = 12.079(2)$, $b = 15.096(3)$, $c = 7.155(2)$ Å
7.46(100), 6.09(10), 3.789(30), 3.601(20), 3.519(40), 3.249(45), 3.186(60), 2.044(15)
Type material is deposited in the collections of the Department of Geology, State Museum of Natural Sciences (Naturéum), Anthropole, Dorigny, 1015 Lausanne, Switzerland, catalogue number MGL101918
How to cite: Plášil, J., Škoda, R., Ansermet, S., and Meisser, N.: Leishmanite, IMA 2026-002, in: CNMNC Newsletter 91, Eur. J. Mineral., 38, https://doi.org/10.5194/ejm-38-347-2026, 2026.

3 Nomenclature/classification proposals approved in March 2026

IMA 25-B – stilpnomelane group: composition range, franklinphilite and ekmanite discredited

(Richard A. Eggleton, Penelope L. King, Frank Brink, Peter Self, and Aaron Dodd)

Proposal 25-B on the nomenclature of the stilpnomelane group is accepted. The general formula of minerals belonging to this group is $A_4M_{48}[Si_{64}Al_8](O,(OH))_{216} \cdot nH_2O$, where $A =$ K, Na, Ca, and Ba, and $M = Fe^{2+}$, Mn, Mg, Al, Fe^{3+}, and Zn. The end-member formula of stilpnomelane is $K_4Fe^{2+}_{48}[Si_{64}Al_8]O_{164}(OH)_{52} \cdot nH_2O$, and lennilenapeite is redefined as an Mn analogue with the end-member formula $K_4Mn^{2+}_{48}[Si_{64}Al_8]O_{164}(OH)_{52} \cdot nH_2O$. Ekmanite is a stilpnomelane with minor Mn, and franklinphilite is a mixture of lennilenapeite and nelenite; both minerals are consequently discredited.

IMA 26-A – definition of a gadolinite-(Y) neotype

(Dan Holtstam, Alice Taddei, Hans-Jürgen Förster, and Oona Appelt)

Proposal 26-A is accepted, and the neotype material for gadolinite-(Y) is redefined from the Ytterby locality, Sweden. The sample is stored in the collections of the Swedish Museum of Natural History, P.O. Box 50007, 10405 Stockholm, Sweden, catalogue no. GEO-NRM LK6893.

4 Other issues

Polish-up of the IMA List of Minerals (second round)

After a similar action made some years ago (see CNMNC Newsletter 50), the IMA-CNMNC is making effective a number of minor changes in the ideal chemical formulae of mineral species. In most cases the change merely consists of the elimination of subordinate constituents occurring within the same parentheses together with the dominant

constituent. Minerals marked as Q (questionable) in the IMA List of Minerals were not considered since these deserve a more detailed re-appraisal. Similarly, minerals belonging to a supergroup for which the IMA-CNMNC approved a comprehensive report were left behind too as those formulae have already been discussed and agreed upon by a dedicated subcommittee. This is an executive decision taken by the IMA-CNMNC.

Aldridgeite
Current formula: $Cd(Cu,Zn)_4(SO_4)_2(OH)_6(H_2O)_3$
New formula: $CdCu_4(SO_4)_2(OH)_6(H_2O)_3$
[Cf. devilline: $CaCu_4(SO_4)_2(OH)_6(H_2O)_3$]

Aluminocopiapite
Current formula: $(Al,Mg)Fe^{3+}_4(SO_4)_6(OH,O)_2(H_2O)_{14} \cdot 6H_2O$
New formula: $AlFe^{3+}_4(SO_4)_6O(OH)(H_2O)_{14} \cdot 6H_2O$
[Cf. magnesiocopiapite: $MgFe^{3+}_4(SO_4)_6(OH)_2(H_2O)_{14} \cdot 6H_2O$]

Alumovesuvianite
Current formula: $Ca_{19}Al(Al_{10}Mg_2)Si_{18}O_{69}(OH)_9$
New formula: $Ca_{19}Al(Al_{10}Mg_2)(SiO_4)_{10}(Si_2O_7)_4O(OH)_9$
[Cf. manganvesuvianite:
$Ca_{19}Mn^{3+}(Al_{10}Mg_2)(SiO_4)_{10}(Si_2O_7)_4O(OH)_9$]

Ankerite
Current formula: $Ca(Fe^{2+},Mg)(CO_3)_2$
New formula: $CaFe^{2+}(CO_3)_2$
[Cf. dolomite: $CaMg(CO_3)_2$]

Arsenbrackebuschite
Current formula: $Pb_2(Fe^{3+},Zn)(AsO_4)_2(OH,H_2O)$
New formula: $Pb_2Fe^{3+}(AsO_4)_2(OH)$
[Cf. feinglosite: $Pb_2Zn(AsO_4)_2 \cdot H_2O$]

Azoproite
Current formula: $Mg_2[(Ti,Mg),Fe^{3+}]O_2(BO_3)$
New formula: $Mg_2(Ti_{0.5}Mg_{0.5})O_2(BO_3)$
[Cf. ludwigite: $Mg_2Fe^{3+}O_2(BO_3)$]

Bannisterite
Current formula: $(Ca,K,Na)(Mn^{2+},Fe^{2+})_{10}(Si,Al)_{16}O_{38}(OH)_8 \cdot nH_2O$
New formula: $CaMn^{2+}_{10}[(Si_{14}Al_2)O_{38}(OH)_8] \cdot nH_2O$
[Cf. kayupovaite: $Na_2Mn^{2+}_{10}[(Si_{14}Al_2)O_{38}(OH)_8] \cdot 7H_2O$]

Barićite
Current formula: $(Mg,Fe)_3(PO_4)_2(H_2O)_8$
New formula: $Mg_3(PO_4)_2(H_2O)_8$
[Cf. vivianite: $Fe^{2+}_3(PO_4)_2(H_2O)_8$]

Barquillite
Current formula: $Cu_2(Cd,Fe)GeS_4$
New formula: Cu_2CdGeS_4
[Cf. briartite: Cu_2FeGeS_4]

Borisenkoite
Current formula: $Cu_3[(V,As)O_4]_2$
New formula: $Cu_3(VO_4)_2$
[Cf. kayupovaite: $Cu_3(AsO_4)_2$]

Bouazzerite
Current formula: $Bi_6(Mg,Co)_{11}Fe_{14}(AsO_4)_{18}O_{12}(OH)_4(H_2O)_{86}$
New formula: $Bi_6Mg_{11}Fe_{14}(AsO_4)_{18}O_{12}(OH)_4(H_2O)_{86}$

Byrudite
Current formula: $(Be,?)(V^{3+},Ti)_3O_6$
New formula: $BeV^{3+}_2TiO_6$
[Cf. verbierite: $BeCr^{3+}_2TiO_6$]

Carbocernaite
Current formula: $(Sr,Ce,La)(Ca,Na)(CO_3)_2$
New formula: $SrCa(CO_3)_2$

Chlorophoenicite
Current formula: $(Mn,Mg,Zn)_3Zn_2(AsO_4)(OH,O)_6$
New formula: $Mn_3Zn_2(OH)_6As[O_3(OH)_3]$
[Cf. peterchinite: $Zn_3Zn_2(OH)_6As[O_3(OH)_3]$]

Cyprine
Current formula: $Ca_{19}Cu^{2+}(Al,Mg)_{12}Si_{18}O_{69}(OH)_9$
New formula: $Ca_{19}Cu^{2+}(Al_{11}Mg)(SiO_4)_{10}(Si_2O_7)_4O(OH)_9$
[Cf. magnesiovesuvianite:
$Ca_{19}Mg(Al_{11}Mg)(SiO_4)_{10}(Si_2O_7)_4O(OH)_9$]

Eckhardite
Current formula: $(Ca,Pb)Cu^{2+}Te^{6+}O_5(H_2O)$
New formula: $CaCu^{2+}Te^{6+}O_5(H_2O)$

Fluorvesuvianite
Current formula: $Ca_{19}(Al,Mg)_{13}(SiO_4)_{10}(Si_2O_7)_4O(F,OH)_9$
New formula: $Ca_{19}Al(Al_{10}Mg_2)(SiO_4)_{10}(Si_2O_7)_4OF_9$
[Cf. alumovesuvianite:
$Ca_{19}Al(Al_{10}Mg_2)(SiO_4)_{10}(Si_2O_7)_4O(OH)_9$]

Fontarnauite
Current formula: $(Na,K)_2(Sr,Ca)(SO_4)[B_5O_8(OH)](H_2O)_2$
New formula: $Na_2Sr(SO_4)[B_5O_8(OH)](H_2O)_2$

Fritzscheite
Current formula: $Mn^{2+}(UO_2)_2(VO_4,PO_4)_2 \cdot 4H_2O$
New formula: $Mn^{2+}(UO_2)_2(VO_4)_2 \cdot 4H_2O$
[Cf. lehnerite: $Mn^{2+}(UO_2)_2(PO_4)_2 \cdot 8H_2O$]

Gainesite
Current formula: $Na_2(Be,Li)Zr_2(PO_4)_4 \cdot 1.5H_2O$
New formula: $Na_2BeZr_2(PO_4)_4 \cdot 1.5H_2O$

Hloušekite
Current formula: $(Ni,Co)Cu_4(AsO_4)_2(AsO_3OH)_2(H_2O)_7 \cdot H_2O$
New formula: $NiCu_4(AsO_4)_2(AsO_3OH)_2(H_2O)_8 \cdot H_2O$

Hydrombobomkulite
Current formula: $(Ni,Cu)Al_4(NO_3,SO_4)_2(OH)_{12}(H_2O)_{14}$
New formula: $NiAl_4(NO_3)_2(OH)_{12}(H_2O)_{14}$

Johnwalkite
Current formula: $K(Mn^{2+},Fe^{3+})_2(Nb,Ta)O_2(PO_4)_2 \cdot 2(H_2O,OH)$
New formula: $KMn_2^{2+}NbO_2(PO_4)_2(H_2O)_2$
[Cf. olmsteadite: $KFe_2^{2+}NbO_2(PO_4)_2(H_2O)_2$]

Laitakarite
Current formula: $Bi_4(Se,S)_3$
New formula: Bi_4Se_3
[Cf. ikunolite: Bi_4S_3]

Lasnierite
Current formula: $(Ca,Sr)(Mg,Fe^{2+})_2Al(PO_4)_3$
New formula: $CaMg_2Al(PO_4)_3$

Lucabindiite
Current formula: $(K,NH_4)As_4O_6(Cl,Br)$
New formula: $K(As_2O_3)_2Cl$

Lusernaite-(Y)
Current formula: $Y_4Al(CO_3)_2(OH,F)_{11}(H_2O)_4 \cdot 2H_2O$
New formula: $Y_4Al(CO_3)_2(OH)_{11}(H_2O)_4 \cdot 2H_2O$

Magnesiochlorophoenicite
Current formula: $Mg_3Zn_2(AsO_4)(OH,O)_6$
New formula: $Mg_3Zn_2(OH)_6As[O_3(OH)_3]$
[Cf. peterchinite: $Zn_3Zn_2(OH)_6As[O_3(OH)_3]$]

Magnesioneptunite
Current formula: $KNa_2Li(Mg,Fe)_2Ti_2Si_8O_{24}$
New formula: $KNa_2LiMg_2Ti_2Si_8O_{24}$
[Cf. neptunite: $KNa_2LiFe_2^{2+}Ti_2Si_8O_{24}$]

Magnesiorowlandite-(Y)
Current formula: $Y_4(Mg,Fe)(Si_2O_7)_2F_2$
New formula: $Y_4Mg(Si_2O_7)_2F_2$
[Cf. rowlandite-(Y): $Y_4Fe^{2+}(Si_2O_7)_2F_2$]

Mbobomkulite
Current formula: $(Ni,Cu)Al_4(NO_3,SO_4)_2(OH)_{12}(H_2O)_3$
New formula: $NiAl_4(NO_3)_2(OH)_{12}(H_2O)_3$

Mccrillisite
Current formula: $NaCs(Be,Li)Zr_2(PO_4)_4 \cdot 1\text{-}2H_2O$
New formula: $NaCsBeZr_2(PO_4)_4 \cdot 1\text{-}2H_2O$

Montroseite
Current formula: $(V^{3+},Fe^{2+},V^{4+})O(OH)$
New formula: $V^{3+}O(OH)$

Murunskite
Current formula: $K_2(Cu,Fe)_4S_4$
New formula: $K_2(Cu_3^+Fe^{3+})S_4$
[Cf. thalcusite: $Tl_2(Cu_3^+Fe^{3+})S_4$]

Nordgauite
Current formula: $MnAl_2(PO_4)_2(F,OH)_2(H_2O)_4 \cdot H_2O$
New formula: $MnAl_2(PO_4)_2F_2(H_2O)_4 \cdot H_2O$
[Cf. kayrobertsonite: $MnAl_2(PO_4)_2(OH)_2(H_2O)_4 \cdot 2H_2O$]

Ohmilite
Current formula: $Sr_3(Ti,Fe^{3+})(Si_2O_6)_2(O,OH)(H_2O)_2$
New formula: $Sr_3Ti(Si_2O_6)_2O(H_2O)_2$
[Cf. yuzuxiangite: $Sr_3Fe^{3+}(Si_2O_6)_2(OH)(H_2O)_3$]

Paraniite-(Y)
Current formula: $(Ca,Y,Dy)_2Y(WO_4)_2(AsO_4)$
New formula: $Ca_2Y(WO_4)_2(AsO_4)$

Paratacamite
Current formula: $Cu_3(Cu,Zn)(OH)_6Cl_2$
New formula: $Cu_3Cu(OH)_6Cl_2$

Paratacamite-(Mg)
Current formula: $Cu_3(Mg,Cu)(OH)_6Cl_2$
New formula: $Cu_3Mg(OH)_6Cl_2$

Paratacamite-(Ni)
Current formula: $Cu_3(Ni,Cu)(OH)_6Cl_2$
New formula: $Cu_3Ni(OH)_6Cl_2$

Plumboagardite
Current formula: $(Pb,REE,Ca)Cu_6(AsO_4)_3(OH)_6(H_2O)_3$
New formula: $PbCu_6(AsO4)_2(AsO_3OH)(OH)_6(H_2O)_3$
[Cf. zálesíite: $CaCu_6(AsO4)_2(AsO_3OH)(OH)_6(H_2O)_3$]

Potassiccarpholite
Current formula: $K(Mn^{2+},Li)_2Al_4Si_4O_{12}(OH,F)_8$
New formula: $K(Mn^{2+}Li)Al_4Si_4O_{12}(OH)_8$

Putzite
Current formula: $(Cu,Ag)_8GeS_6$
New formula: Cu_8GeS_6
[Cf. argyrodite: Ag_8GeS_6]

Serpierite
Current formula: $Ca(Cu,Zn)_4(SO_4)_2(OH)_6(H_2O)_3$
New formula: $CaCu_4(SO_4)_2(OH)_6(H_2O)_3$

Thalcusite
Current formula: $Tl_2(Cu,Fe)_4S_4$
New formula: $Tl_2(Cu_3^{+}Fe^{3+})S_4$
[Cf. bukovite: $Tl_2(Cu_3^{+}Fe^{3+})Se_4$]

Thorutite
Current formula: $(Th,U,Ca)Ti_2(O,OH)_6$
New formula: $ThTi_2O_6$
[Cf. brannerite: UTi_2O_6]

Yttrotungstite-(Ce)
Current formula: $CeW_2O_6(OH)_3$
New formula: $CeW_2O_7(OH)(H_2O)$
[Cf. yttrotungstite-(Nd): $NdW_2O_7(OH)(H_2O)$]

Yttrotungstite-(Y)
Current formula: $Y(W,Fe,Si,Al,Ti)_2(O,OH,H_2O)_9$
New formula: $YW_2O_7(OH)(H_2O)$
[Cf. yttrotungstite-(Nd): $NdW_2O_7(OH)(H_2O)$]

Zincobriartite
Current formula: $Cu_2(Zn,Fe)(Ge,Ga)S_4$
New formula: Cu_2ZnGeS_4
[Cf. briartite: Cu_2FeGeS_4]