

Pääkkönenite

Borodaev YuS, Mozgova NN, Ozerova NA, Bortnikov NS, Oivanen P, Iletuinen V: ZVMO,(1981) 110, 480-487
Finland - Vaasan Lääni - Seinäjoki ore region - Kalliosa

- Russia: FMM-Moscow - Type: HT:

Pabstite

Gross EB, Wainwright JEN, Evans BW: Amer.Min.(1965) 50, 1164-1169
USA - California - Santa Cruz County - Santa Cruz (N of) - Kalkar quarry (Pacific Limestone Products)

- USA: NMNH-Washington - Type: T: 145632 (don. California Inst.Techn., GR Rossman, 1979)

Paceite

Hibbs DE, Kolitsch U, Leverett P, Sharpe JL, Williams PA: Min.Mag.(2002) 66, 459-464
Australia - New South Wales - Broken Hill - Potosi mine

- Australia: BHG-Broken Hill - Type: CT:
- Australia: MOV-Melbourne - Type: T: M47465
- Australia: TAM-Sydney - Type: CT:

Paderaite

Mumme WG, Zák L: Neues Jahrb.Min.,Mh.(1985) 557-567
Romania - Transilvania - Apuseni Mts. - Crisana, Baita Bihorului

- Czech Republic: CUP-Praha - Type: CT: 11329 (micr. grains)
- Australia: MOV-Melbourne - Type: CT:

Hungarian locality name: Rézbánya

Paderaite

Mumme WG, Zák L: Neues Jahrb.Min.,Mh.(1985) 557-567
Romania - Transilvania - Apuseni Mts. - Crisana, Baita Bihorului

- USA: NMNH-Washington - Type: T:

Hungarian locality name: Rézbánya

Padmaite

Polekhovskii YuS, Voloshin AV, Tarasova IP, Nikitin SA, Pakhomovskii YaA, Men'shikov YuP, Kretzer YuL, Kolytsheva TI: ZVMO,(1991) 120, 85-88

Russia - Karelskaya A.R. - Padma river - Onega basin

- Russia: MM-St.Petersburg - Type::

In shungite-bearing metashales of Lower Proterozoic age

Paganoite

Roberts AC, Burns PC, Gault RA, Criddle AJ, Feinglos MN, Stirling JAR: Eur.J.Min.(2001) 13, 167-175
Germany - Sachsen - Erzgebirge - Johannegeorgenstadt - (on an old mineral specimen found the mid-1800's)

- Canada: GSC-Ottawa - Type: T: NMCC 68083
- United Kingdom: NHM-London - Type: T:
- USA: Feinglos-Durham - Type: HT: contains two other undefined phases under investigation

Pahasapaite

Rouse RC, Peacor DR, Dunn PJ, Campbell TJ, Roberts WL, Wicks FJ, Newbury D: Neues Jahrb.Min.,Mh.(1987) 433-440

USA - South Dakota - Custer County - Black Hills, Custer (ca. 8.5km SW of) - Tip Top mine

- USA: NMNH-Washington - Type: HT: 159879 (don. WL Roberts, 1983)

Painite

Claringbull GF, Hey MH, Payne CJ: *Min.Mag.*(1957) 31, 420-425

Myanmar - (Upper Burma) - Sagaing - Mogok - Ohngaing village (near)

- United Kingdom: NHM-London - Type: HT: BM 1954,192
- USA: NMNH-Washington - Type: HT: 142506 (part of BM 1954,192)

Compare PB Moore and Araki T in: Amer.Min.(1976) 61, 88-94

Palarstanide

Begizov VD, Zav'yalov EM, Pavlov EG: *ZVMO*,(1981) 110, 487-492

Russia - Krasnoyarskiy Kray - Noril'sk - Talnakh

- Russia: FMM-Moscow - Type::
- Russia: IGEM-Moscow - Type::

Intergrowth in massive cubanite ores

Palenzonaite

Basso R: *Neues Jahrb.Min.,Mh.*(1987) 136-144

Italia - Liguria - Genova - Val Graveglia (NE of Lavagna) - Molinello mine

- Italy: IMUGe-Genova - Type: T:
- Canada: ROM-Toronto - Type: T:

Palermoite

Mrose ME: *Amer.Min.*(1953) 38, 354

USA - New Hampshire - Grafton County - North Groton - Palermo mine

- USA: HMM-Cambridge - Type: T: 101342

Palladoarsenide

Begizov VD, Meshchankina VI, Dubakina LS: *ZVMO*,(1974) 103, 104-107

Russia - Krasnoyarskiy Kray - Noril'sk - Talnakh - Oktyabr deposit

- Russia: FMM-Moscow - Type::

Palladobismutharsenide

Cabri LJ, Rowland JF, Laflamme JHG, Steward JM: *Can.Min.*(1976) 14, 410-413

USA - Montana - Stillwater County - Stillwater Complex

- USA: NMNH-Washington - Type: T: 135407 (don. LJ Cabri, 1976)
- Canada: ROM-Toronto - Type: CT: M34218 (<1mg)

Palladodymite

Britvin SN, Rudashevsky NS, Bogdanova AN, Shcherbachov DK: *ZVMO*,(1999) 128, 2, 39-42

Russia - Ural-S - Chelyabinsk Oblast - Miass (near) - Miass River, in a placer

- Russia: UDG-St.Petersburg - Type: T:

Palladseite

Davis RJ, Clark AM, Criddle AJ: *Min.Mag.*(1977) 41, 123 and M10-13

Brazil - Minas Gerais - Itabira

- United Kingdom: NHM-London - Type: HT: BM 1977,500
- USA: NMNH-Washington - Type: T: 142504 (on the same specimen with and filed under arsenopalladinite, CT; part of BM 1934,72)

In the residual concentrates from the gold washing.

Palmierite

Lacroix A: C.R.Acad.Sci.Paris (1907) 144, 1400

Italia - Campania - Napoli - Vesuvio, Monte Somma

- Italy: MMUNa-Napoli - Type: T: 17516 (1 sample)
- France: MHN-Paris - Type: HT: 107.476, 107.477 (conservation in a sealed glass by A. Lacroix)
- United Kingdom: NHM-London - Type: CT: BM 1927,1049 (1 sample)

Palygorskite

Savchenkov T: Verhandl.k.Ges.gesamt.Min. St.Petersburg,(1862) p102

Russia - Ural-W - Perm - Permian mining district - Popovka river

- Russia: VGM-Moscow - Type: T: 14256 (Fersman)

Panasqueiraite

Isaacs AM, Peacor DR: Can.Min.(1981), 19, 389-392 and Can.Min.(1985), 23, 131 errata

Portugal - Faro - Panasqueira (N37 21', W8 36')

- USA: UM-Ann Arbor - Type: CT:
- USA: NMNH-Washington - Type: HT: 144.521

Panunzite

Franco E, Gennaro M de: Amer.Min.(1988) 73, 420-421

Italia - Campania - Napoli - Vesuvio, Monte Somma

- Italy: MMUNa-Napoli - Type: T:

Named for the natural occurrence. Synthetic product named Tetrakalsilite

Paolovite

Genkin AD, Evstigneeva TL, Vyal'sov LN, Laputina IP, Troneva NV: Geol.Rudn.Mestorozhdenii,(1974) 16, 98-103

Russia - Krasnoyarskiy Kray - Noril'sk - Talnakh - Oktyabr deposit

- Russia: FMM-Moscow - Type::

Parabariomicrolite

Ercit TS, Hawthorne FC, Cerny P: Can.Min.(1986) 24, 655-663

Brazil - Rio Grande do Norte - Parelhas - Onca mine, Alto do Giz pegmatite

- USA: NMNH-Washington - Type: T: 104739 (don. M Slavin, 1943)
- Canada: ROM-Toronto - Type: CT: M 22607

Parabrandtite

Dunn PJ, Peacor DRm Su S, Wicks FJ, Parker FJ: Neues Jahrb.,Abh.(1987) 157, 113-119

USA - New Jersey - Sussex County - Ogdensburg - Sterling Hill mine

- USA: NMNH-Washington - Type: HT: 163210 (don. FJ Parker, 1985)

Parabutlerite

Bandy MC: Amer.Min.(1938) 23, 742-745

Chile - Antofagasta - Ceritos Bayos - Alcaparrosa and Chuquicamata

- USA: HMM-Cambridge - Type: CT: 94834 (part of AMNH no. 4629-30)
- USA: NMNH-Washington - Type: T: 115159 8don. MC Bandy, 1938)

Paracoquimbite

Ungemach H: C.R.Acad.Sci. Paris (1933) 197, 1133

Chile - Atacama - Copiapo (SE of) - Tierra Amarilla

- France: MHN-Paris - Type: T: 133.73 (coll. H Ungemach; don Univ. of Strasbourg)

Other TL in Chile = Antofagasta, Alcaparrosa and Quetena mines

Paracostibite

Cabri LJ, Harris DC, Stewart JM: Can.Min.(1970) 10, 232-246

Canada - Ontario - Kenora District - Mulcahy Township - Red Lake area, Trout Bay

- Canada: GSC-Ottawa - Type: HT: 12162/3 (pol. sect.)
- Canada: ROM-Toronto - Type: CT: M29431, M29435 (pol. sect., <1mg)

Paradamite

Switzer G: Science (1956) 123, p. 1039

Mexico - Durango - Municipio de Mapimi - Mapimi - La Ojuela mine

- USA: HMM-Cambridge - Type: T: 106378, 126606 (part of NMNH no. 112518)
- United Kingdom: NHM-London - Type: HT (part of): BM 1969,184
- USA: NMNH-Washington - Type: HT/HT (part of): 145679 (don. G Burnham, 1956; on same specimen and filed under ojuelaitite), and 112518 (don. G Burnham, 1955)

Paradocrasite

Leonard BF, Mead CW, Finney JJ: Amer.Min.(1971) 56, 1127-1146

Australia - New South Wales - Broken Hill - Consols lode (S31 58', E141 30')

- USA: NMNH-Washington - Type: T: R00419

Parafransoletite

Kampf AR, Dunn PJ, Foord EE: Amer.Min.(1992) 77, 843-847

USA - South Dakota - Custer County - Black Hills, Custer (ca. 8.5km SW of) - Tip Top mine

- USA: LACMNH-Los Angeles - Type: HT (part of): 35696 (parts of a single specimen)
- USA: NMNH-Washington - Type: HT: 168432

Parahopeite

Spencer LJ: Nature (1907) 77, 143

Zambia - Central Prov. - Broken Hill (Kabwe)

- United Kingdom: NHM-London - Type: HT: BM 1907,976/80

Parajamesonite

Zsivny V, Naray-Szabo I: Schweiz.Min.Petr.Mitt.(1947) 27, 183-187

Romania - Maramures - Gutâi Mts. - Chiuzbaia, Herja mine

- Hungary: HNHM-Budapest - Type: CT: A58.3139 (1 spec., 7 small vials powd. red mat. and cryst. fragments)

Hungarian locality names: Kisbánya

Parakeldyshite

Khomyakov AP, Voronkov AA, Kazakova ME, Vlasova EV, Smolyanova NN: Trudy Min.Muz.Fersman, Akad.Nauk SSSR,(1975) 24, 120-131

Russia - Kola Peninsula - Lovozero and Khibiny massifs - Alluaiv resp. Takhtarvumchorr Mts.

- Russia: VGM-Moscow - Type: T: 51715, 57771 (Khomyakov 1980, 1989)

See parakeldyshite from Norway

Parakhinite

Williams SA: Amer.Min.(1978) 63, 1016-1019

USA - Arizona - Cochise County - Tombstone - Emerald mine

- France: MHN-Paris - Type: T: (don. SA Williams)
- United Kingdom: NHM-London - Type: CT: BM 1980,543
- USA: NMNH-Washington - Type: T: 164352 (don. RV Gaines, 1987)

Parakuzmenkoite-Fe

Chukanov NV, Pekov IV, Semenov EI, Zadov AE, Krivovichev SV, Berns PC: ZVMO (2001) 130/6, 63-67
Russia - Kola Peninsula - Lovozero Massif - Kedykverpakhk Mt.

- Russia: FMM-Moscow - Type: T: 2625/1

Paralaurionite

Smith GFH: Min.Mag.(1899) 12, 108

Greece - Attica - Lavrion

- France: MHN-Paris - Type: HT: (fragm. of); 103.594 (don. NHM-London, Fletcher)

Paramelaconite

Koenig GA: Proc.Acad.Nat.Sci. Philadelphia (1891) p. 284

USA - Arizona - Cochise County - Bisbee - Copper Queen mine

- USA: HMM-Cambridge - Type: CT: 94834 (part of AMNH no. 4629.30) [and 97919?]
- Germany: IMK-TU-Berlin - Type: T: 87/309 (part of the Harvard type)
- United Kingdom: NHM-London - Type: T: BM 1967,37
- USA: NMNH-Washington - Type: T: R01820 (Roebing coll., 1927)

Strunz (1941) named the mineral "Paratenorite".

Paramendozavilite

Williams SA: Bol. de Mineral.(1986) 2, 13-19

Mexico - Sonora - Municipio de Cumpas - Cumpus (SW of) - Cumobabi Mo-pegmatite deposit

- United Kingdom: NHM-London - Type: CT: BM 1984,476

Paranatisite

Khomyakov AP, Polezhaeva LI, Sokolova EV: ZVMO,(1992) 121, 133-136

Russia - Kola Peninsula - Khibiny massif - Yukspor Mt.

- Russia: FMM-Moscow - Type: T:

In pegmatite

Paranatroilite

Chao GY: Can.Min.(1980) 18, 85-88

Canada - Quebec - Rouville County - Mont Saint-Hilaire

- Canada: CMN-Ottawa - Type: HT: 37132 (50-100g)

Paraniite-(Y)

Demartin F, Gramaccioli CM, Pilati T: Acta Cryst.(1992) C48, 1357-1359

Italia - Piemonte - Novara - Valle d'Ossola, Valle Devero, Alpe Devero - Pizzo Cervandone

- Italy: MCS-PG-Crodo - Type: HT:

Compare same authors in: Schweiz.Min.Petrogr.Mitt.(1994) 74, 155-160

Paraotwayite

Nickel EH and Graham J: Can.Min.(1987) 25, 409-411

Australia - Western Australia (NW) - Pilbara region - Nullagine district - Otway Ni-deposit (S21 39', E120 06')

- Australia: MOV-Melbourne - Type: CT: M36824
- USA: NMNH-Washington - Type: CT: 164243
- Australia: WAM-Perth - Type: HT: M71.1991 (formerly 16891, one specimen)

Parapierrotite

Johan Z, Picot P, Hak J, Kvacek M: Tschermaks Min.Petr.(1975) 22, 200-210

Macedonia - Rozden (near) - Allchar deposit

- France: ENSM-Paris - Type: HT:

Pararammelsbergite

Peacock MA, Michener CE: *Contr.Can.Min.*, Univ.Toronto, Geol.Ser.(1939) 42, 95-112

Canada - Ontario - Timiscaming District - Coleman Township, Lot 6, Con. VI - Hudson Bay-, Moose Horn-, and Keeley-mine

- Canada: ROM-Toronto - Type: CT: M11772a-c (a few g), M14242 (Keeley mine), and M12411 (Moose Horn mine)

Compare MA Peacock (and AS Dadson) in: Amer.Min.(1940) 211-212 and 561-577

Pararealgar

Roberts AC, Ansell HG, Bonardi M: *Can.Min.*(1980) 18, 525-527

Canada - British Columbia - Vancouver Island - Comox District - Mt. Washington copper deposit and British Columbia, Lillooet District, Bridge River area, Truax Creek (head of)

- Canada: GSC-Ottawa - Type: CT: 31566 (sev. mg, Mt. Washington), 61567 (Grey Rock)

Pararobertsite

Roberts AC, Sturman BD, Dunn PJ, Roberts WL: *Can.Min.*(1989) 27, 451-455

USA - South Dakota - Custer County - Black Hills, Custer (ca. 8.5km SW of) - Tip Top mine

- USA: NMNH-Washington - Type: HT: 149606 (don. AC Roberts, 1982)
- Canada: ROM-Toronto - Type: HT: M43771

Pararsenolamprite

Matsubara S, Miyawaki R, Shimizu M, Yamanaka T: *Min.Mag.*(2001) 65, 807-812

Japan - Kyushu - Oita Prefecture - Yamaga-cho - Mukuno mine (N33 28'47", E131 26'15")

- Japan: NSM-Tokyo - Type: T: M-28015

Paraschachnerite

Seeliger E, Mücke A: *Neues Jahrb.Min.,Abh.*(1972) 117, 1-18

Germany - Rheinland-Pfalz - Nordpfälzer Bergland, Donnersberg Kreis - Donnersberg Kreis, Obermoschel (SE of) - Vertrauen-auf-Gott mine

- USA: NMNH-Washington - Type: CT: 150256 (filed under schachnerite type)

Parascholzite

Sturman BD, Rouse RC, Dunn PJ: *Amer.Min.*(1981) 66, 843-851

Germany - Bayern - Oberpfalz - Hagendorf pegmatites, Waidhaus (2km NW of)

- USA: NMNH-Washington - Type: HT: B14318 (cryst. study), B14345 (chem. anal.)

Parascorodite

Ondrus P, Skala R, Viti C, Veselovsky F, Novak F, Jansa J: *Amer.Min.*(1999) 84, 1439-1444

Czech Republic - Stredocesky (Central Czechy) - Kutna Hora (near) - Kank ore veins - Kuntery mine (from heavy weathered dumps)

- Czech Republic: NMCR-Praha - Type: HT: P1p25/98

Also from: Czech Republic, Jachymov ore district, Svornost mine, Geschieber vein

Parasibirskite

Kusachi I, Takechi Y, Henmi C, Kobayashi S: *Min.Mag.*(1998) 62, 521-525

Japan - Okayama Pref. - Bicchu township - Fuka limestone mine

- Japan: NSM-Tokyo - Type: T:

Parasymplesite

Ito T, Minato H, Sakarai K: *Proc. Japan Acad.*(1954) 30, 318-324

Japan - Kyushu - Oita Pref. - Ume - Kiura mine

- Japan: NSM-Tokyo - Type: T: M-24052
- Japan: UMT-Tokyo - Type: T:

Paratacamite

Smith GFH: Min.Mag.(1906) 14, 170

Chile - Atacama - Sierra Gorda - Hermina and Generosa mines

- United Kingdom: NHM-London - Type: HT: BM 87123
- USA: NMNH-Washington - Type: HT (part of): 095146

Paratellurite

Switzer G and Swanson HE: Amer.Min.(1960) 45, 1272-1274

Mexico - Sonora - Municipio de Cananea - Cananea (near) - Santa Rosa mine or La Moctezuma mine

- USA: NMNH-Washington - Type: T: C5995 (FA Canfield coll., 1951), R8861 and R18129 (don. ER Swoboda, thru WA Roebling coll., 1952)
- Canada: ROM-Toronto - Type: T: M25007 (<1mg)

Paraumbite

Khomyakov AP, Voronkov AA, Kobyashev YuS, Polezhaeva LI: ZVMO,(1983) 112, 461-469

Russia - Kola Peninsula - Khibiny massif - Eveslogchorr Mt., near lake Umba

- Russia: FMM-Moscow - Type: T:
- Russia: GIKB-Apatity - Type::

Paravauxite

Gordon SG: Amer.Min.(1922) 7, 107-108

Bolivia - Potosí Dep. - Colquechaca (NW of) - Llallagua mine

- USA: NMNH-Washington - Type: T: 112735 (don. SG Gordon, 1957) and 136012 (don. Philadelphia Acad. Sci., thru RW Middleton, 1976)

Parkinsonite

Symes RF, Cressey G, Criddle AJ, Stanley CJ, Francis JG, Jones GC: Min.Mag.(1994), 58, 59-68

Great Britain - England - Somerset - Mendip Hills, Cranmore - Merehead Quarry (N51 12', W2 26')

- United Kingdom: NHM-London - Type: HT: BM 1987,478 and polished section E.1215

Parnauite

Wise WS: Amer.Min.(1978) 63, 704-708

USA - Nevada - Pershing County - Majuba Hill mine (near entrance to Cu-stope)

- USA: NMNH-Washington - Type: HT: 144004 (don. Univ. of Calif., WS Wise, 1978)

Parsettensite

Jakob J: Schweiz.Min.Petr.Mitt.(1923) 3, 227-237

Switzerland - Graubünden - Oberhalbstein - Alp Parsettens (Mn-mine)

- Switzerland: ETH-Zürich - Type: HT: 194.806 (20g)
- USA: HMM-Cambridge - Type: T: 90497 (don. J Jakob)

Parsonsite

Schoep A: C.R.Acad.Sci.Paris,(1923) 176, 171-173

Zaire - Shaba - Likasi - Shinkolobwe uranium mine

- France: ENSM-Paris - Type: T: 123.89

Partheite

Sarp H, Deferne J, Bizouard H, Liebich W: Schweiz.Min.Petr.Mitt.(1979) 59, 5-13

Turkey - Burdur Province - Taurus Mts. - Doganbaba (7 km SE of) - Belenkösiriti colline

- Switzerland: MHN-Genève - Type: HT: 435/10 (88g)
- United Kingdom: NHM-London - Type: CT: BM 1978,489
- USA: NMNH-Washington - Type: T: 146562 (don. MHNGe, thru J Deferne. 1980)

Parwelite

Moore PB: Arkiv Min.Geol.(1969) 4, 467-472

Sweden - Värmland - Filipstad - Filipstad - Langban

- USA: NMNH-Washington - Type: T: 120065
- Sweden: SMNH-Stockholm - Type: HT: 532369

In: Can.Min.(1967) 9, 301 only name

Pascoite

Hillebrand WF, Merwin HE, Wright FE: Proc.Am.Phil.Soc.(1914) 53, 31-54

Peru - Junin Dep. - Cerro de Pasco (near) - Minasragra (in V-ores)

- USA: HMM-Cambridge - Type: T: 101701 (don. WT Schaller)
- USA: NMNH-Washington - Type: T: 093297 (don. WF Hillebrand, 1917), 087662 (don. DF Hewett, 1912)

Patronite

Hewett F: Engin.Mining J.(1906) 82, 385

Peru - Junin Dep. - Cerro de Pasco

- USA: HMM-Cambridge - Type: HT: 100822

Paulkellerite

Dunn PJ, Grice JD, Wicks FJ, Gault RA: Amer.Min.(1988) 73, 870-872 and 873-875

Germany - Sachsen - Erzgebirge - Schneeberg - Neuhilfe mine

- Canada: CMN-Ottawa - Type: HT (part of): 53450 (several cryst., few mg total)
- USA: NMNH-Washington - Type: HT: 163177

Paulkerrite

Peacor DR, Dunn PJ, Simmons WB: Min.Record,(1984) 15, n5, 303-306

USA - Arizona - Yavapai County - 7-U-7 Ranch - Bagdad Cu mine

- USA: NMNH-Washington - Type: CT & T: R07778 (don. Harvard Univ., thru Roebling coll., 1936) and 120405 (don. Harvard Univ., thru CS Hurlbut, 1936; on same specimen with and filed under bermanite)

Often labeled Bermanite at this locality

Paulmooreite

Dunn PJ, Peacor DR, Sturman BD: Amer.Min.(1979) 64, 352-354

Sweden - Värmland - Filipstad - Filipstad - Langban

- USA: HMM-Cambridge - Type: HT (part of): 134563 (don. PJ Dunn, NMNH no. 142974)
- USA: NMNH-Washington - Type: HT & CT: 142974 and 134973

Pavonite

Nuffield EW: Amer.Min.(1954) 39, 338-339 and 409-415

Bolivia - Potosí Dep. - Sud-Lipez Province - Cerro Bonete - Porvenir mine

- USA: HMM-Cambridge - Type: HT: 100695 (described from HMM-coll.)

Paxite

Johan Z: Acta Univ. Carolinae, Geologica (1961) 2, 77-86

Czech Republic - Vychodocecky (Eastern Czechy) - Krkonose Mts. - Cerny Dul (Schwarzenthal)

- Czech Republic: CUP-Praha - Type: CT: 12900 (100mg)
- France: ENSM-Paris - Type: CT: 18646 (mission SCEM) and 18647 (don. F Cech, 1966)
- USA: NMNH-Washington - Type: T: 162605A0 (Trelawney coll., 1985; specimen with and filed under Koutekite)

Pearceite

Peacock MA and Berry LG: *Min.Mag.*(1947) 28, 1-13

USA - Colorado - Pitkin County - Aspen district - Mollie Gibson mine

- United Kingdom: NHM-London - Type: NT (part of): BM 84843

First description of the species by SL Penfield in Amer.J.Sci., ser. 4 (1896) 2, 17 from USA, Montana, Drumlummon mine

Pecoraite

Faust GT, Fahey JJ, Mason B, Dwornik EJ: *Science* (1969) 165, 59-60

Meteorite-Australia - Western Australia, Wolf Creek meteoritic crater (S19 11', E127 48') - Meteorite Wolf Creek - Iron, Octahedrite, IIIB

- USA: NMNH-Washington - Type: T: 128111 (don. B Mason and EP Henderson, 1968)

Ni-analogue of clinochrysoilite, filling cracks in the meteorite, associated with maghemite and quartz, cassidyite and reevesite

Pehrmanite

Burke EAJ, Lustenhouwer WJ: *Can.Min.*(1981) 19, 311-314

Finland - Turun-Porin Lääni - Kimito (=Kemiö, ca. 10km SW of) - Rosendal pegmatite

- Netherlands: IESFU-Amsterdam - Type: HT:

Peisleyite

Pilkington ES, Segnit ER, Watts JA: *Min.Mag.*(1982) 46, 449-452

Australia - South Australia - Kapunda - Tom's Phosphate quarry (S34 21', E138 55')

- Australia: MOV-Melbourne - Type: HT: M35630 (4.8g)

Pellyite

Meagher EP: *Geol.Soc.America, Abstr.Prg.*(1971) 644-645

Canada - Yukon Territory - Gillespite Lake (3km SW of) - Pelly and Ross Rivers (near headwaters of)

- USA: NMNH-Washington - Type: T: 148587
- Canada: UBC-Vancouver - Type: CT: S-79-21844 (1 vial)

Compare JH Montgomery, RM Thompson, EP Meagher in: Can.Min.(1972) 11, 444-447

Penikisite

Mandarino JA, Sturman BD, Corlett MI: *Can.Min.*(1977) 15, 393-395

Canada - Yukon Territory - Big Fish River/Blow River area - Rapid Creek (a tributary of), Cross-cut Creek

- Canada: ROM-Toronto - Type: HT: M34172 (few mg)

Penkvilksite-2O

Bussen IV, Men'shikov YuP, Merkov AM, Nedorezova AP, Uspanskaya EI, Khomyakov AP: *DAN-SSSR*,(1974) 217, 1161-1164

Russia - Kola Peninsula - Lovozero massif - Karnasurt Mt. - Jubilejnaja pegmatite

- France: ENSM-Paris - Type: CT:
- Russia: FMM-Moscow - Type: HT:
- United Kingdom: NHM-London - Type: HT: BM 1994,024 (part of)

First published as Penkvilskite

Pennantite

Smith WC, Bannister FA, Hey MH: *Min.Mag.*(1946) 27, 217-220

Great Britain - Wales - Gwynedd - Rhiw - Benallt mine

- France: MHN-Paris - Type: T: (don NHM-London, part of BM 1944,50)
- United Kingdom: NHM-London - Type: CT: BM 1947,295 and 296
- USA: NMNH-Washington - Type: T: 105855 (don. NMH-London, 1949)

Penobsquisite

Grice JD, Gault RA, van Velthuisen J: Can.Min.(1996) 34, 657-665

Canada - New Brunswick - Kings County - Penobsquis (in a residue obtained from the dissolution of halite drill core) (N45 47', W65 26')

- Canada: CMN-Ottawa - Type: HT: CMN MI 81524 (2 WDS mounts, 10 vials of single xls)

Penroseite

Gordon SG: Proc.Acad.Sci., Philadelphia (1925) 77, 317-324

Bolivia - Potosí Dep. - Colquechaca

- USA: HMM-Cambridge - Type: T: 87472 (don. Acad.Nat.Sci., Philadelphia,1925)
- United Kingdom: NHM-London - Type: CT: BM 1926/1
- USA: NMNH-Washington - Type: T: 095302 (don. Acad.Nat.Sci., Philadelphia,1925) and R07247 (Roebing coll., 1927)

Pentagonite

Staples LW, Evans HT, Lindsay JR: Amer.Min.(1973) 58, 405-411 and 412-424

USA - Oregon - Malheur County - Owyhee Dam (2.1 mls S of) - Lake Owyhee State Park

- USA: NMNH-Washington - Type: T: 120584 and 122769 (found in the collection; on the same specimen with and filed under types Cavansite)

Pentlandite

Dufrénoy A: *Traité élémentaire Minéral*. 1st ed.(1856) 2, 549

Great Britain - Scotland - Argyllshire - Craignure Inverary - Essachossen mine

- United Kingdom: NHM-London - Type: HT: 26622 and 26623 (2 samples)

Penzhinite

Bochek LI, Sandomirskaya SM, Chuvikina NG, Khvorostov VP: ZVMO,(1984) 113, 356-360

Russia - Kamchatka - Penzhina- (Pengina-) River - Chukotka

- Russia: FMM-Moscow - Type::

In a near surface Au-Ag-deposit, hydrothermal

Peprossiite-(Ce)

Della Ventura G, Parodi GC, Mottana A, Chaussidon M: Eur.J.Min.(1993) 5, 53-58

Italia - Lazio - Roma - Campagnano - Sacrofano volcanic caldera

- Italy: MMURo-Roma - Type: T:
- France: MHN-Paris - Type: T:

Sanidinite ejectum at Monte Cavalluccio

Peretaite

Cipriani N, Menchetti S, Orlandi P, Sabelli C: Amer.Min.(1980) 65, 936-946

Italia - Toscana - Grosseto - Scansano, Grosseto (SE of) - Pereta mine

- Italy: MCSN-Molano - Type: T: M23272 (don. P Orlando, 1981)
- Italy: MMUFI-Firenze - Type: HT: 164/I (few mg)
- USA: NMNH-Washington - Type: T: 148481, 148482 (don. C Sabelli, 1981)

Perhamite

Dunn PJ and Applemann D: Min.Mag.(1977) 41, 437-442

USA - Maine - Oxford County - Newry - Bell Pit

- United Kingdom: NHM-London - Type: CT: BM 1976,424
- USA: NMNH-Washington - Type: T: 135740 (don. J Pollack, 1976)

Periclase

Scacchi A: Mem.Min.Geol.(1841) 23

Italia - Campania - Napoli - Vesuvio, Monte Somma

- France: MHN-Paris - Type: T: 96.1201 (don. A Scacchi to A Daubré)

Perite

Gillberg M: Arkiv Min.Geol.(1961) 2, 565-570

Sweden - Värmland - Filipstad - Filipstad - Langban, Rämndrift

- United Kingdom: NHM-London - Type: CT: BM 1980,106
- Sweden: SMNH-Stockholm - Type: HT: g1051

Perlielite

Men'shikov YuP: ZVMO,(1984) 113, 607-612

Russia - Kola Peninsula - Khibiny massif - Eveslogchorr and Yukspor Mts.

- Russia: FMM-Moscow - Type: T:
- Russia: GIKB-Apatity - Type: T:

In foidite

Perloffite

Kampf AR: Min.Rec.(1977) 8, 112-114

USA - South Dakota - Pennington County - Glendale (1km S of) - Big Chief pegmatite

- USA: NMNH-Washington - Type: T: 135925 and 137015 (don. PB Moore, 1977)

Permingeatite

Johan Z, Picot P, Pierrot R, Kvacek M: Bull.Soc.fr.Min.Crist.(1971) 94, 162-165

Czech Republic - Jihocesky (Southern Czechy) - Predborice

- France: ENSM-Paris - Type: HT: (don. P Picot, 1972)

Perraultite

Mandarino JA, Anderson V: Monteregean Treasures, Cambr.Univ.Press,(1989)

Canada - Quebec - Rouville County - Mont Saint-Hilaire - Demix quarry

- Canada: CMN-Ottawa - Type: HT (part of): 50037 (few xx, <2mg)
- Canada: ROM-Toronto - Type: CT: M41005 (few mg)

Compare GY Chao in: Can.Min.(1991) 29, 355-358

Perrouditite

Sarp H, Birch WD, Hlava PF, Pring A, Sewell DKB, Nickel EH: Amer.Min.(1987) 72, 1251-1262

*France - Provence-Alpes-Côte d'Azur - Var dép. - Pradet, near - Cap Garonne mine **

- Switzerland: MHN-Genève - Type: HT & CT: 435/80 (Cap Garonne)
- Australia: MOV-Melbourne - Type: (Broken Hill)

And Australia, New South Wales, Broken Hill (= 2nd TL)

Petarasite

Chao GY, Chen TT, Baker J: Can.Min.(1980) 18, 497-502

Canada - Quebec - Rouville County - Mont Saint-Hilaire - Demix quarry

- Canada: CMN-Ottawa - Type: CT (part of): 43721, 43630/1 (approx. 300mg)
- Canada: GSC-Ottawa - Type: CT: 61531
- USA: NMNH-Washington - Type: CT: 148593
- Canada: ROM-Toronto - Type: CT: M36456-M36458 (all parts of the HT, approx. 1g)

Petedunnite

Essene EJ and Peacor DR: Amer.Min.(1987) 72, 157-166

USA - New Jersey - Sussex County - Franklin

- USA: NMNH-Washington - Type: HT: 162211 (don. R. Bostwick, 1984)

Peterbaylissite

Roberts AC, Ercit TS, Groat LA, Criddle AJ, Erd RC, Williams RS: Can.Min.(1995), 33, 47-53

USA - California - San Benito County - New Idria district - Clear Creek claim (N36 22'59", W120 43'58")

- Canada: GSC-Ottawa - Type: HT: NMC-67533
- United Kingdom: NHM-London - Type: HT?: BM1993,431 polished mount E.1492

Petersenite-(Ce)

Grice JD, Van Velthuizen J, Gault RA: Can.Min.(1994), 32, 405-414

Canada - Quebec - Rouville County - Mont Saint-Hilaire - Poudrette quarry

- Canada: CMN-Ottawa - Type: HT: 81511 (1 small piece of matrix with xls, 1 single xl mount, WDS probe mount)

Petersite-(Y)

Peacor DR and Dunn PJ: Amer.Min.(1982) 67, 1039-1042

USA - New Jersey - Hudson County - Secaucus - Laurel Hill

- USA: NMNH-Washington - Type: HT: 148973 (don. T Peters, 1981)
- Canada: ROM-Toronto - Type: T: M38448/9 (don. T and J Peters, 1982; a few mg)

Petitjeanite

Krause W, Belendorff K, Bernhardt H-J: Neues Jahrb.Min.,Mh.(1993) 487-503

Germany - Hessen - Odenwald - Gadernheim

- Germany: RUB-Bochum - Type: HT: (few mg on a specimen of 4x3x2 cm)

In a silicified barite vein with other secondary minerals.

Petrovicite

Johan Z, Kvacsek M, Picot P: Bull.Soc.fr.Min.Crist.(1976) 99, 310-313

Czech Republic - Jihomoravsky (Southern Moravia) - Zdar nad Sazava - Petrovice ore deposit

- France: ENSM-Paris - Type: HT: (don. Z Johan, 1975)

Petrovskaitite

Nesterenko GV, Kuznetsova AI, Palchik NA, Lavrentev YuG: ZVMO,(1984) 113, 602-607

Kazakhstan - (Central) - Maikain Au-deposit, lower part, depth 60-65m

- Russia: CSGM-Novosibirsk - Type::

Hydrothermal

Petrukite

Kissin SA, Owens DR: Can.Min.(1989) 27, 673-688

Canada - British Columbia - Turnagin River area - Cassier District - Herb Claim

- USA: NMNH-Washington - Type: T: 163779

Petscheckite

Mücke A and Strunz H: Amer.Min.(1978) 63, 941-946

Madagascar - (Central North) - Tsaratanana (40km NE of) - Berere (near) - Antsakoa I pegmatite

- Germany: IMK-TU-Berlin - Type: (types are missing)

Petterdite

Birch WD, Kolitsch U, Witzke T, Nasdala L, Bottrill RS: *Can.Min.*(2000) 38, 1467-1476

Germany - Sachsen - Callenberg Ni-deposit

- Germany: BAF-Freiberg - Type: T:

First TL in: Australia, Tasmania, Zeehan-Dundas mining district, Red Lead mine

Petterdite

Birch WD, Kolitsch U, Witzke T, Nasdala L, Bottrill RS: *Can.Min.*(2000) 38, 1467-1476

Australia - Tasmania - Zeehan-Dundas mining field - Red Lead mine (S41 51' E145 25')

- Australia: MOV-Melbourne - Type: T: M38601

Second TL in: Germany, Sachsen, Callenberg Ni-deposit

Phaunouxite

Bari H, Catti M, Ferraris G, Ivaldi G, Permingeat F: *Bull.Mineral.*(1982) 105, 327-332

France - Alsace - Haut-Rhin dép. - Ste-Marie-aux-Mines - Giftgrube, Gabe Gottes / St.Jacques vein

- France: MHN-Paris - Type: C:
- USA: NMNH-Washington - Type: CT: 142221

Philipsbornite

Walenta K, Zwiener M, Dunn PJ: *Neues Jahrb.Min.,Mh.*(1982) p. 1-5

Australia - Tasmania - Dundas - Proprietary mine (S41 54', E145 28')

- USA: NMNH-Washington - Type: T: 148463

Philipsburgite

Peacor DR, Dunn PJ, Ramik RA, Sturman BD, Zeihen LG: *Can.Min.*(1985) 23, 255-258

USA - Montana - Granite County - Philipsburg (near), Flint Creek Valley - Black Pine mine

- USA: NMNH-Washington - Type: HT: 161201 (don. LG Zeihen, 1984)
- Canada: ROM-Toronto - Type: CT: M41000 (don. PJ Dunn, 1984; a few mg)

Philolithite

Kampf AR, Moore PB, Jonsson E, Gupta PKS, Swihart GH: *Mineral.Rec.*(1997) 28, 55 and *Mineral.Rec.*(1998) 29, 201-206

Sweden - Värmland - Filipstad - Filipstad - Langban (N59 52', E14 16')

- Canada: CMN-Ottawa - Type: T: 58623
- USA: LACMNH-Los Angeles - Type: T: LACMNH 41794 (powder and single X-ray diffr. and EDS analysis)
- Sweden: SMNH-Stockholm - Type: T: 37389 (structure)

Phosinaite-(Ce)

Kapustin YuL, Khomyakov AP, Semenov EI, Eskova EM, Bykova AV, Pudovkina ZV: *ZVMO*,(1974) 103, 567-570

Russia - Kola Peninsula - Lovozero and Khibiny massifs - Karnasurt and Koashva Mts.

- France: ENSM-Paris - Type: CT: (from Mt. Koashva)
- Russia: FMM-Moscow - Type: T:
- Russia: IMGRE-Moscow - Type: T:

Phosphammite

Bridge PJ: *Min.Mag.*(1973) 39, 346-348

Australia - Western Australia - Kalgoorlie (330km NE of) - Toppin Hill - Earles Find (S28 42', E123 56')

- Australia: WAM-Perth - Type: NT: S4688 (minimal)

New definition of phosphammite first published by CU Shepard in: Treat.Min.(1852) 3rd ed., no. 1, p. 67 from Peru, Islas, Guañape Island.

Phosphofibrite

Walenta K, Dunn PJ: *Chemie der Erde*,(1984) 43, 11-16

Germany - Baden-Württemberg - Schwarzwald - Kinzigtal, Oberwolfach - Clara mine

- USA: NMNH-Washington - Type: CT: 150230

Phosphogartrellite

Krause W, Belendorff K, Bernhardt H-J, Petitjean K: *Neues Jahrb.Min.,Mh.*(1998) 111-118

Germany - Hessen - Odenwald - Reichenbach (near) - Hohenstein (200m S)

- Germany: RUB-Bochum - Type: T:

In a silicified barite vein.

Phosphorrösslerite

Friedrich OM, Robitsch J: *Centr.Min.,Abt.A.*,(1939), 142

Austria - Salzburg - Schellgaden - "Stüblbau"

- USA: HMM-Cambridge - Type: T: 107177 (don. O.M. Friedrich)

In accumulated muds in the old mine.

Phosphosiderite

Bruhns W, Busz K: *Zeitschr.Kryst.*(1890) 27, 555

Germany - Nordrhein-Westfalen - Siegen - Eiserfeld - Kalterborn mine

- France: MHN-Paris - Type: HT (part of): 108232

Phosphovanadylite

Medrano MD, Evans HT Jr, Wenk H-R, Piper DZ: *Amer.Min.*(1998) 83, 889-895

USA - Idaho - Caribou County - Soda Springs - Monsanto's Enoch Valley Phosphate open pit mine (N42 53', W111 25')

- USA: NMNH-Washington - Type: T: (all available material)

Phuralumite

Deliens M, Piret P: *Bull.Minéral.*(1979) 102, 333-337

Zaire - Kivu - Mwenga - Kobokobo open pit

- Belgium: MRAC-KMMA-Tervuren - Type: HT: RGM 6.201 (a few prismatic crystals)

Phurcalite

Deliens M, Piret P: *Bull.Min.*(1978) 101, 356-358

Germany - Sachsen - Vogtland - Bergen

- Belgium: MRAC-KMMA-Tervuren - Type: HT: RGM 13388

Phurcalite

Deliens M, Piret P: *Bull.Min.*(1978) 101, 356-358

Germany - Sachsen - Vogtland - Bergen

- USA: NMNH-Washington - Type: HT (part of): 144187

Phyllotungstite

Walenta K: *Neues Jahrb.Min.,Mh.*(1984) 529-535

Germany - Baden-Württemberg - Schwarzwald - Kinzigtal, Oberwolfach - Clara mine

- USA: NMNH-Washington - Type: T: 161199

Picotpaulite

Johan Z, Pierrot R, Schubnel HJ, Permingeat F: Bull.Soc.fr.Min.Crist.(1970) 93, 545-549

Macedonia - Rozden (near) - Allchar deposit

- France: ENSM-Paris - Type: HT:
- France: MHN-Paris - Type: HT (part of): 175.189
- United Kingdom: NHM-London - Type: CT: BM 1983,703

Pierrotite

Guillemin C, Johan Z, Laforet C, Picot P: Bull.Soc.fr.Min.Crist.(1970) 93, 66-71

France - Provence-Alpes-Côte d'Azur - Hautes Alpes dép. - La Chapelle-en-Valgaude, 10km E of - Jas Roux

- France: ENSM-Paris - Type: HT:
- France: MHN-Paris - Type: T: 178.177 (P. Picot)

Pigeonite

Winchell AN: Amer.Geologist (1900) 26, pp. 204 and 368

USA - Minnesota - Cook County - Pigeon Point

- France: MHN-Paris - Type: T: 110243 (don. AN Winchell)

Pillaite

Orlandi P, Moelo Y, Meerschaut A, Palvadeau P: Eur.J.Min.(2001) 13, 605-610

Italia - Toscana - Lucca - Alpi Apuane, Stazzema (NE of) - Buca della Vena mine (N43 59'55", E2 09'31")

- Italy: MSNU-Pisa - Type: T: 15524/5

Pilsenite

Kenngott A: Das Mohs'sche Mineralsystem (1853) p. 121

Hungary - Pest megye (=county) - Börzsöny Mts. - Deutsch Pilsen (today Nagybörzsöny)

- Hungary: ELU-Budapest - Type: T: A563

Redefinition of pilsenite after a reexamination by T Ozawa and H Shimazaki in: Proc. Japan Acad.(1982) 58, 291-294. In an austrian institute should be a type specimen of the redefinition. A synonymous name of Pilsenite is Wehrlite (Huot, 1841)

Pinakiolite

Flink G: Zeits.Krist.Min.(1890) 18, 361-365

Sweden - Värmland - Filipstad - Filipstad - Langban

- Sweden: SMNH-Stockholm - Type: HT: 531826

Pinalite

Dunn PJ, Grice JD, Bideaux RA: Amer.Min.(1989) 74, 934-935

USA - Arizona - Pinal County - Tiger - Mammoth mine

- Canada: CMN-Ottawa - Type: CT: 53775 (few xx, ca. 2mg)
- USA: NMNH-Washington - Type: HT: 165890 (don. RA Bideaux, 1988)

Pinchite

Sturman BD and Mandarino JA: Can.Min.(1974) 12, 417-418

USA - Texas - Brewster County - Terlingua (near) - Mercury deposit

- Canada: CMN-Ottawa - Type: CT: 80149 (few fragm., several mg)
- USA: HMM-Cambridge - Type: HT (part of): 119858 (don. WW Pinch, 1983)
- USA: NMNH-Washington - Type: HT & T: 160256 (don. WW Pinch, 1983) and 128440, 132391 (don. WW Pinch, 1974/5)
- Canada: ROM-Toronto - Type: CT: M33258 (<1mg)

Pingguite

Sun Zhifu, Luo Keding, Tan Falan, Zhang Jingyi: Acta Mineral. Sinica (1994) 14/4, 315-321

China - Hebei Province - Pinggu County - Yangjiava Au-deposit

- China: NMG-Beijing - Type: T:

In the oxidation zone of the small gold deposit

Pintadoite

Hess FL and Schaller WT: J.Wash.Acad.Sci.(1914) 4, 576-579

USA - Utah - San Juan County - Dry Valley Canyon Pintado - Frisco no. 2 Claim (and Ed Whitney Claims)

- USA: HMM-Cambridge - Type: T: 98962 (don. WT Schaller)
- USA: NMNH-Washington - Type: T: 093657 (don. U.S.Geol.Surv., 1919, Ed Whitney, Ed Whitney Cl.) and R05714 (Roebing coll., Frisco Cl.)

Piretite

Vochten R, Blaton N, Peeters O, Deliens M: Can.Min.(1996) 34, 1317-1322

Zaire - Shaba - Shinkolobwe uranium deposit

- Belgium: IRSNB-Brussels - Type: T: RC 4717

Pirquitasite

Johan Z and Picot P: Bull.Min.(1982) 105, 229-235

Argentina - Jujui - Rinconada department - La Puna - Pirquitas Sn-mine

- France: ENSM-Paris - Type: CT: (without no., a polished section)

Pitiglianoite

Merlino S, Mellini M, Bonaccorsi E, Pasero M, Leoni L, Orlandi P: Amer.Min.(1991) 76, 2003-2008

Italia - Toscana - Grosseto - Pitigliano - Casa Collina quarry (near)

- Italy: MSNU-Pisa - Type: T:

In ejected blocks

Pitticite

Hausmann JFL: Handb.Mineral., first ed.(1813) 1, 285

Germany - Sachsen - Freiberg (near) - Grossvoigtsberg - Christbescherung mine

- Germany: BAF-Freiberg - Type: T: 21860 (2 specimen) (??)

Piypite

Vergasova LP, Filatov SK, Serafimova EK, Starova GL: DAN-SSSR,(1984) 275, 714-716

Russia - Kamchatka - Great Tolbachik fissure eruption (fumaroles)

- Russia: MM-St.Petersburg - Type::

Platarsite

Cabri LJ, Laflamme JHG, Steward JM: Can.Min.(1977) 15, 385-388

South Africa - Eastern Transvaal - Lydenburg District - Onverwacht Pt-deposit

- Canada: CMN-Ottawa - Type: HT(part of): 57407(graains in polished sect., Pinch-coll.)
- USA: NMNH-Washington - Type: T: 136485A0 (specimen with and filed under genkinite)

found in the Bushfield Complex

Playfairite

Jambor JL: Can.Min.(1967) 9, 191-213

Canada - Ontario - Hastings County - Huntington Township, Lot 13, Con. XIV - Madoc, Taylor pit

- Canada: GSC-Ottawa - Type: CT: 12168 (pol. sect.), 12171
- Canada: ROM-Toronto - Type: CT: M35893 (pol.sect.), M35896

Plombièrite

Daubrée A: C.R.Acad.Sci.Paris,(1858) 46, 1088

France - Lorraine - Vosges dép. - Plombières (on the brick and mortar of an old Roman aqueduct)

- France: MHN-Paris - Type: T: 93.338 (Leg. G.A. Daubrée)

TL of the NT: Great Britain, Northern Ireland, County Antrim, Ballycraigy.

Plumboferrite

Igelström LJ: Öfvers. KVA handl.(1881) 38, 27-31

Sweden - Värmland - Filipstad - Filipstad - Jakobsberg

- France: MHN-Paris - Type: T: 96.113 (don. Igelström)
- Sweden: SMNH-Stockholm - Type: HT: 81:0224 (and new reference material)

New definition of the species by Holtstam D, Norrestam R, Sjödin A in: Amer.Min.(1995) 80, 1065-1072

Plumbogummite

Gillet de Laumont: J.J. Berzelius "Nouv.Syst.Mineral."(1819) p.283

France - Bretagne - Finistere - Poullaouen - Huelgoet

- France: MHN-Paris - Type: T: 35.1114

Plumbojarosite

Hillebrand WF and Penfield SL: Amer.J.Sci.(1902) ser. 4, 14, 213

USA - New Mexico - Luna County - Cook's Peak district

- USA: NMNH-Washington - Type: T: 086551 and R06308 (Roebbling coll.)

Plumbotellurite

Spiridonov EM, Tananaeva OI: DAN-SSSR,(1982) 262, 1231-1235

Kazakhstan - (North) - Zhana-Tyube deposit

- Russia: FMM-Moscow - Type::

Supergene

Plumbotsumite

Keller P, Dunn PJ: Chemie der Erde,(1982) 41, 1-6

Namibia - Otavi - Tsumeb

- Germany: IMKU-Stuttgart - Type: HT: NM 10 (fragm. of xx)
- USA: NMNH-Washington - Type: CT: 148301

Poitevinite

Jambor JL, Lachance GR, Courville S: Can.Min.(1964) 8, 109-110

Canada - British Columbia - Lillooet District - Bonaparte River - Hat Creek, Avoca claim

- France: ENSM-Paris - Type: CT:
- Canada: GSC-Ottawa - Type: CT: 12122 (sev. g)
- USA: NMNH-Washington - Type: T: 142995
- Canada: ROM-Toronto - Type: CT: M25440 (approx. 0.5g)

Pokrovskite

Ivanov OK, Malinovskii YuA, Mozzherin YuA: ZVMO,(1984) 113, 90-95

Kazakhstan - (North) - Zlatogorsk

- Russia: FMM-Moscow - Type::

Polarite

Genkin AD, Evstigneeva TL, Troneva NV, Vyal'sov LN: ZVMO,(1969) 98, 708-715

Russia - Krasnoyarskiy Kray - Noril'sk - Talnakh deposit

- Canada: GSC-Ottawa - Type: HT: 10401 (polishes section; Cabri, Traill)
- USA: NMNH-Washington - Type: CT: 160244

First description without name by L.J. Cabri and R.J. Traill in Can.Min.(1966) 8, 541-550

Poldervaartite

Dai Y, Harlow GE, McGhie AR: Amer.Min.(1993) 78, 1082-1087

South Africa - Northern Cape Province - Kuruman District - Kalahari Manganese Field - Wessels mine

- USA: AMNH-New York - Type: HT: T100728

Polhemusite

Leonard BF, Desborough GA, Mead CW: Amer.Min.(1978) 63, 1153-1161

USA - Idaho - Valley County - Big Creek district - The B and B Sb-deposit

- USA: NMNH-Washington - Type: HT: 145549 (don. U.S.Geol.Surv., BF Leonard, 1979)

Polkanovite

Britvin SN, Rudashevsky NS, Bogdanova AN, Shcherbachov DK: ZVMO,(1998) 127, n.2, 60-62

Russia - Ural (S) - Chelyabinsk Oblast - upper Miass river, unnamed placer deposit

- Russia: MM-St.Petersburg - Type: T: 3073/1
- Poland: JUKr-Krakow - Type: CT: (3 pol. sect.)

Pollucite

Breithaupt A: Ann.Phys.Chem.(1846) 69, 439

Italia - Toscana - Livorno - Isola d'Elba - San Piero in Campo

- Germany: BAF-Freiberg - Type: HT: 27111/3

Polyakovite-(Ce)

Popov VA, Pautov LA, Sokolova E, Hawthorne FC, McCammon C, Bazhenova LF: Can.Min.(2001) 39, 1095-1104

Russia - Ural-S - Chelyabinsk Oblast - Miass (near), Ilmen Natural Reserve - N97 mine

- Russia: FMM-Moscow - Type: T:
- Russia: MSRI-Miass - Type: T:

Polyphite

Khomyakov AP, Nechelyustov GN, Sokolova EA, Dorokhova GI: ZVMO,(1992) 121, n1, 105-112

Russia - Kola Peninsula - Lovozero massif - Alluaiv Mt.

- Russia: FMM-Moscow - Type: T:

Epitaxially on Lomonosovite and Sobolevite

Ponomarevite

Vergasova LP, Filatov SK, Serafimova EK, Semenova TF: DAN-SSSR,(1988) 300, 1197-1200

Russia - Kamchatka - Tolbachik main fracture eruption (fumaroles)

- Russia: MM-St.Petersburg - Type: :

Portlandite

Tilley CE: Min.Mag.(1933) 23, 419-420

Great Britain - Northern Ireland - County Antrim - Larne - Scawt Hill

- United Kingdom: NHM-London - Type: HT (part of the): BM 1933,307 (1 sample)

Potarite

Harrison JB: Bull.Soc.fr.Min.(1926) 49, 5

Guyana - Kangaruma district - Potaro River - Kaietur Falls

- France: MHN-Paris - Type: T: 125263 (don. JB Harrison)
- United Kingdom: NHM-London - Type: T: BM 1924,192
- USA: NMNH-Washington - Type: T: 095350 (Essequibo River, Amu Creek; don. Govern. Guyana, through JB Harrison, 1926)

Potassicchloropargasite

Chukanov NV, Konilov AN, Zadov AE, Belakovsky DI, Pekov IV: ZVMO (2002) 131/2, 58-62

Russia - Kola Peninsula - Salnye Tundra massif - Elgoras Mt.

- Russia: FMM-Moscow - Type: T: 2964/1,2

Potassicferrisanagaite

Bazhenov AG, Bazhenova LF, Krinova TV, Khvorov PV: ZVMO (1999) 128/4, 50-55

Russia - Ural-S - Chelyabinsk - Miass - Ilmen Mts.

- Russia: FMM-Moscow - Type: T:

Potassicpargasite

Robinson GW, Grice JD, Gault RA, Lalonde AE: Can.Min.(1997) 35, 1535-1540

Finland - Turku-Porin Lääni - Turku (SSE of) - Pargas (=Parainen; metamorphic limestones)

- Canada: CMN-Ottawa - Type: HT: CMN 81529

Potassiumfluorrichterite

Della Ventura G, Parodi GC, Maras A: Atti Accad.Lincei.Rend.Cl.Sci.fis.mat.nat., Roma (1992) ser.9, 3, 239-245

Italia - Campania - Napoli - Vesuvio, Monte Somma - San Vito (near)

- Italy: MMURo-Roma - Type: HT & CT: 24469/1

In a skarn ejectum occurring in pyroclasts

Potosiite

Wolf M, Hunger H-J, Bewilogua K: Freiburger Forschungshefte (1981) C364, 113-133

Bolivia - Potosí Dep. - Kari-Kari-Andacaba-Kamuana massif - Andacale mine

- Germany: BAF-Freiberg - Type: HT: 67345-47 (don. M Wolf, 1981)

Poubaite

Cech F and Vavrin I: Neues Jahrb.Min.,Mh.(1978) 9-19

Czech Republic - Zapadocesky (Western Czechy) - Tachov (near) - Oldrichov

- Czech Republic: CUP-Praha - Type: HT: 21241 (grains)
- France: ENSM-Paris - Type: HT: (part of; don. F Cech, 1974)

Poudretteite

Grice JD, Ercit TS, van Velthuisen J: Can.Min.(1987) 25, 763-766

Canada - Quebec - Rouville County - Mont Saint-Hilaire - Poudrette quarry

- Canada: CMN-Ottawa - Type: CT: 51743, 51791 (4 xx, a few mm each)
- USA: NMNH-Washington - Type: T: 163776

Poughite

Gaines RV: Amer.Min.(1968) 53, 1075-1080

Mexico - Sonora - Municipio de Moctezuma - Moctezuma - Moctezuma mine

- France: MHN-Paris - Type: T: 175.77 (don. RV Gaines)
- USA: NMNH-Washington - Type: T: 128388 (don. RV Gaines, 1968)
- USA: NMNH-Washington - Type: T: (don. RV Gaines)

Honduras - Ojonjona district - El Plombo mine

- USA: NMNH-Washington - Type: T: 164338 (don. RV Gaines, 1974)

P-ourayite

Makovicky E, Karup-Moller S: Can.Min.(1984) 22, 565-575

Greenland - South Greenland - Ivigtut (Ivittuut) - Ivigtut Cryolite deposit / mine

- Denmark: GMK-Copenhagen - Type: T: 1985.490-492 (Polished sections)

Merely a "working name", and not an I.M.A. approved species.

Povondraite

Grice JD, Ercit TS, Hawthorne FC: Amer.Min.(1993) 78, 433-436

Bolivia - Cochabamba - Villa Tunari (near) - Alto Chapane, Aranibar - San Francisco mine

- USA: NMNH-Washington - Type: CT: 144478
- Canada: ROM-Toronto - Type: CT: M35899

The type specimen are the same as those of the discredited Ferridravite, described by Walenta K and Dunn PJ in: Amer.Min.(1973) 64, 945-948

Powellite

Melville WH: Amer.J.Sci.(1891) ser. 3, 41, 138

USA - Idaho - Adams County - Seven Devils district - Peacock lode

- USA: NMNH-Washington - Type: T: 080674 (don. WH Melville, 1892)

Poyarkovite

Vasilev VI, Lavrentev YuG, Palchik MA: ZVMO,(1981) 110, 501-506

Kyrgystan - Khaidarkan Sb-Hg-deposit (N39 58', E71 15')

- Russia: CSGM-Novosibirsk - Type: :

Preisingerite

Bedlivy D, Mereiter K: Amer.Min.(1982) 67, 833-840

Argentina - San Juan - Calingasta - San Francisco de les Andes and Cerro Negro de la Aguadita (S30 45', W69 30')

- Austria: NHMW-Wien - Type: T: L7689

Preiswerkite

Keusen HR and Peters Tj: Amer.Min.(1980) 65, 1134-1137

Switzerland - Wallis - Binnental - Geisspfad (ultramafic complex)

- United Kingdom: NHM-London - Type: CT: BM 1982,455
- Switzerland: NMBE-Bern - Type: HT & CT: B2548

Pretulite

Bernhard F, Walter F, Ettinger K, Taucher J, Mereiter K: Amer.Min.(1998) 83, 625-630

Austria - Steiermark - Fischbacher Alpen - Mürzzuschlag (12km SSW) - Höllkogel (100m SW) (N47 30'56", E15 37'25")

- Austria: Joanneum-Graz - Type: T:
- Austria: NHMW-Wien - Type: T:

Priderite

Norrish K: *Min.Mag.*(1951) 29, 496-501

Australia - Western Australia - Kimberley Division-West - Walgidee Hills (S18 18', E124 51')

- Australia: UWA-Perth - Type: HT: 18766

Pringleite

Roberts AC, Stirling JAR, Grice JD, Burns PC, Roulston BV, Curtis JD, Jambor JL: *Can.Min.*(1993) 31, 795-800

Canada - New Brunswick - near Sussex - Penobsquis - Potash Company of America Mine (N45 45', W65 15')

- Canada: CMN-Ottawa - Type: HT: 82047 (1 piece of matrix, 2 single xl mounts, 1 g of loose material)
- Canada: GSC-Ottawa - Type: HT: 66920

Probertite

Schaller WT: *Amer.Min.*(1928) 13, 452-453

USA - California - Kern County - Kramer Borate district - Boron

- USA: NMNH-Washington - Type: T: 095832/3 (don. U.S.Geol.Surv., 1928)

Original name = Kramerite

Prosopite

Scheerer Th: *Ann.Phys.Chem.,Poggend.*(1854) 90, 315

Germany - Sachsen - Erzgebirge - Altenberg (Stockwerk)

- Germany: BAF-Freiberg - Type: CT: 12825 (coll. Scheerer, 1856)
- France: MHN-Paris - Type: T: 75.97 (don. Scheerer)

Prosperite

Gait RI, Sturman BD, Dunn PJ: *Can.Min.*(1979) 17, 87-92

Namibia - Otavi - Tsumeb

- United Kingdom: NHM-London - Type: CT: BM 1982,72
- USA: NMNH-Washington - Type: HT: 143732
- Canada: ROM-Toronto - Type: CT: M35388 (a few mg)

Protasite

Pagoaga MK, Appleman DE, Stewart JM: *Amer.Min.*(1987) 72, 1230-1238

Zaire - Shaba - Likasi - Shinkolobwe uranium mine

- USA: NMNH-Washington - Type: HT: 150.732

Protoferroanthophyllite

Sueno S, Matsuura S, Gibbs GV, Boisen Jr MB: *Phys.Chem.Min.*(1998) 25, 366-377

USA - Colorado - El Paso County - Cheyenne Mountain area (in pegmatites)

- USA: AMNH-New York - Type: T:
- USA: NMNH-Washington - Type: T:

Japan - Gifu Prefecture - Hirukawa Village (second TL)

- Japan: NSM-Tokyo - Type: T: (cit. by Sueno et al., 1998)

Protomanganoferroanthophyllite

Sueno S, Matsuura S, Gibbs GV, Boisen Jr MB: *Phys.Chem.Min.*(1998) 25, 366-377

Japan - Tochigi Pref. - Yokoneyama Mn-deposit (first TL)

- Japan: ISU-Tsukuba - Type: T: (cit. by Sueno et al., 1998)
- Japan: NSM-Tokyo - Type: T: (cit. by Sueno et al., 1998)

Second TL = Japan, Honshu, Fukushima Pref., Suishoyama (pegmatite)

Pseudoboleite

Lacroix A: Bull.Mus. d'Hist.Nat. Paris (1889) 1, 39

Mexico - Baja California Sur - Municipio de Mulege - Santa Rosalia (near) - Boleo mining district

- France: MHN-Paris - Type: CT: 95.99, 95.101, 95.106 (coll. A Lacroix)

Pseudocotunnite

Scacchi A: Atti R. Accad.Sci.fis.mat., Napoli (1874) 6, n.9, 38

Italia - Campania - Napoli - Vesuvio, Monte Somma

- France: MHN-Paris - Type: CT: 108.1573 (don. A Scacchi; conservation in a sealed glass by A Lacroix)

Pseudograndreefite

Kampf AR, Dunn PJ, Foord EE: Amer.Min.(1989) 74, 927-933

USA - Arizona - Graham County - Aravaipa mining district, Klondyke (6 km NE of), Laurel Canyon - Grand Reef mine

- USA: LACMNH-Los Angeles - Type: HT: 33608
- USA: NMNH-Washington - Type: HT (part of): 166056 (don. CMNH, AR Kampf)

Pseudolaueite

Strunz H: Naturwissenschaften,(1956) 43, 128

Germany - Bayern - Oberpfalz - Hagendorf pegmatites, Waidhaus (2km NW of)

- Germany: IMK-TU-Belin - Type: CT: 89/216 (specimen with approx. 50 crystals up to 1mm); HT is missing.

Pseudomalachite

Breithaupt A: Charakt.Miner.Syst.,3rd ed.(1832) p. 45

Germany - Rheinland-Pfalz - Kreis Neuwied - Linz am Rhein - Erl (old writing=Ehl)

- Germany: BAF-Freiberg - Type: T: 20591 (filed under the old name ehlite)

Pseudorutile

Grey IE, Watts JA, Bayliss P: Min.Mag.(1994) 58, 597-600

Australia - South Australia - South Neptune Island, in a clay horizon (S35 20', E136 07')

- Australia: MOV-Melbourne - Type: NT: M42789

New definition of pseudorutile first published by G Teufer and AK Temple in: Nature (1966) 211, 189 from USA, Florida (and from 3 other places)

Pseudosinhalite

Schreyer W, Pertsev NN, Medenbach O, Burchard M, Dettmar D: Contr.Min.Petr.(1998) 133, 382-388

Russia - Sakha-Yakutiya (S of) - Aldan shield - Tayozhnoye Fe-B skarn deposit

- Germany: RUB-Bochum - Type: T:

Pufahlite

Ahlfeld F: Metall und Erz, Halle (1925) 22, 135

Bolivia - Potosí Dep. - Rio Mulato - Carquaicollo

- United Kingdom: NHM-London - Type: CT: BM 1926,225

Discredited species = variety of teallite

Pumpellyite-(Mg)

Palache C and Vassar HE: Amer.Min.(1925) 10, 412-418

USA - Michigan - Houghton County - Calumet - Centennial mine (and other mines of the Keweenawan Cu-deposits)

- USA: HMM-Cambridge - Type: CT: 90919 (field collected by C Palache, 1921)
- France: MHN-Paris - Type: T: 135488, 136188/9 (don. C. Palache)
- USA: NMNH-Washington - Type: T: 095279 (Centennial mine), 095280 (Isle Royale mine), 095281 (Superior mine), 095282 (Calumet and Hecla mine) (all don. by Harvard Univ., 1925)

Originally described as Pumpellyite

Pumpellyite-(Mn²⁺)

Kato A, Matsubara S, Yamamoto R: Bull.Min.(1981) 104, 396-399

Japan - Honshu - Yamanashi Pref. - Kohsai township (=Kosei), Barazawa (W of) - Ochiai mine

- USA: NMNH-Washington - Type: T: 147159/60 (don. NSM, thru A Kato, 1980)
- Japan: NSM-Tokyo - Type: T: M-23125

Purpurite

Graton LC and Schaller WT: Amer.J.Min., ser. 4 (1905) 20, 146-151

USA - North Carolina - Gaston County - Kings Mountains - Faires Tin mine

- France: MHN-Paris - Type: T: 110238 (don. WT Schaller)
- USA: NMNH-Washington - Type: T: 093883 (don. U.S.Geol.Surv., 1920)

Pushcharovskite

Sarp H, Sanz-Gysler J: Archs Sci.Genève,(1997) 50, 177-186

France - Provence-Alpes-Côte d'Azur - Var dép. - Pradet, near - Cap Garonne mine

- Switzerland: MHN-Geneve - Type: T:

Pyatenkoite-(Y)

Khomyakov AP, Nchelyustov GN, Rastsvetaeva RK: ZVMO,(1996) 125, n4, 72-79

Russia - Kola Peninsula - Lovozero massif - Alluaiv Mt.

- Russia: FMM-Moscow - Type: T: 1602/1

Pyrobelonite

Flink G: GFF,(1919) 41, 433

Sweden - Värmland - Filipstad - Filipstad - Langban

- France: MHN-Paris - Type: T:

Pyrocoproite

Martini JEJ: Proc.12th Int.Congr.Speleology, La Chaux de Fonds, Switzerland,97/233-235

Namibia - Windhoek (150km E of) - Arnhem Cave

- Namibia: Geol. Surv. Namibia-Windhoek - Type: T:

Pyrophanite

Hamberg A: GFF,(1890) 12, 598

Sweden - Värmland - Filipstad - Filipstad - Harstigen

- Sweden: SMNH-Stockholm - Type: HT: 332791

Pyrophosphite

Martini JEJ: Bull. South African Speleological Assoc.(1994) 33, 66-69

Namibia - Windhoek (150km E of) - Arnhem Cave

- South Africa: TMSA-Pretoria - Type: T:

Pyrostilpnite

Breithaupt A: Jahrb. Berg- und Hüttenwesens,(1829) p. 152

Germany - Sachsen - Freiberg (near) - Großschirma - Kurprinz Friedrich August mine

- Germany: BAF-Freiberg - Type: T: 6200 (coll. Breithaupt, 1828)

Name given by Dana for the feuerblende of Breithaupt (1832).

Pyroxferroite

Chao ECT, Minkin JA, Frondel C, Klein C, Drake JC, Fuchs L, Tani B, Smith JV, Anderson AT, Moore PB, Zechmann GR, Traill RJ, Plant AG, Douglas JAV, Dence MR: Proc. Apollo 11 Lunar Sci.Conf.(1970) 1, 65-79
Moon - Mare Tranquillitatis (Apollo 11) and Oceanus Procellarum (Apollo 12 landing site) (In basaltic rocks)

- USA: LPI-Houston - Type: HT & CT: