

SUBJECT INDEX, VOLUME 82, 1997

- ²⁷Al NMR 1133
²⁹Si NMR 1133
 Ab₅₀jd₅₀ 1063
 Afanasyevaite 1038
 Ag and Pb tellurides-sulfides 209
 Ag_{0.66}Pb_{0.88}Bi_{0.1}Sb_{1.33}S₄ 1264
 Ag₂Pb₃Bi₂S₇ 1040
 Akaganéite 1187
 Albite 497, 557, 979
 Al₂Cl(OH)₅·2H₂O, Al₅Cl₃(OH)₁₂·7.5H₂O 623
 Al₂Mg₄(OH)₁₂(CO₃)₃·3H₂O 1041
 Al-27 280
 Al-Mg 280
 Al-phlogopite 936
 Al-Si 280
 Alkali 1141
 Alkali basalt 368
 Alkali feldspar 8, 158, 557
 Alkaline earth silicates 1141
 Allegan 1187
 Allende 310
 Almandine 571
 Almandine-orthopyroxene 345
 Almandine-pyroxene 740
 Almandine-spessartine 740
 Aluminous tremolite 280
 Amphibole 291, 316, 708, 790, 1019
 Analcime 1111
 Analysis, chemical (mineral)
 Al-phlogopite 936
 albite 557
 alkali feldspar 557
 amphibole 316
 apatite 1210
 biotite 582, 1225
 birnessite 946, 962
 calcite 392
 chlorite 109
 clarkeite 607
 clinopyroxene 1198
 clintonite 936
 corrensite 109
 cunningtonite 1079
 dessauite 807
 enstatite 1001
 ferrocaldonite 503
 ferroaluminoceladonite 503
 freudenbergite 991
 garnet 596, 582, 1198, 1225
 graphite 392
 heulandite 517
 hornblende 1079
 illite 379
 illite-smectite 379
 ilmenite 991
 K-rich clinopyroxene 259
 leucite 16
 lizardite-2H₂ 931
 lukechangite-(Ce) 1255
 magnesite 682
 magnesiowüstite 526
 melt 534
 Mg₂SiO₄ 913
 mica 1198
 monazite 772
 mozartite 841
 oligoclase 149
 olivine 1001
 plagioclase 596, 1073
 potassium feldspar 1073
 pyroxene 534
 rhodochrosite 643
 SiO₂ 1042
 smectite 379
 stilbite 729
 surite 416
 terranovaite 423
 titanite 512, 677
 tsaregorodtsevite 405
 vesuvianite 596
 wadsleyite 270
 xenotime 772
 Analysis, chemical (rock)
 calc-silicate 392
 H₂O 549
 marcasite 900
 phonolite 549
 REE 630
 SIMS 630
 trace elements 630
 Anatase 203
 Anorthite 99, 125
 Anorthosite 630
 Antarctica 392
 Antigorite 760
 Apatite 1210
 Ar-Ar 1187
 Aragonite 643
 Au 182
 Auriferous arsenopyrite 182
 Auriferous pyrite 182
 Awards
 Distinguished Public Service Medal, acceptance of 834
 Distinguished Public Service Medal, presentation of 833
 Mineralogical Society of America, acceptance of 831
 Mineralogical Society of America, presentation of 829
 Roebbling Medal, acceptance of 826
 Roebbling Medal, presentation of 824
 BaCrSi₄O₁₀ 697
 Bafertsite-like 433
 Baksanite 1038
 Barium silicate 1116
 Barium silicate glasses 1116
 Bassanite nephelinite 368
 Be 194
 Bechererite 1014
 Belovite-(La) 620
 Benauite 430
 Beryl 194, 1052
 Biotite 582, 1225
 Birnessite 946, 962, 1150
 Blatterite 210
 Book reviews
 Guggenheim, S.: *Crystallography, second edition*. By W. Borchardt-Ott, 840
 McDonald, A.M.: *Mineralogy of Hyperagpaite Alkaline Rocks*. By A.P. Khomyakov 440
 Moore, P.B.: *Franklin and Sterling Hill, New Jersey: The World's Most Magnificent Mineral Deposits*. By Pete J. Dunn 655
 Buserite 1150
 Bütschliite 546
 C 392
 Calcioaravaipate 207
 Calcite 392, 878
 Calc-Silicate 392
 Calcium silicate 1116
 Calcium silicate glasses 1116
 CaSi₂O₅ 836
 Ca₂TiSiO₆ 475
 Carbonate 259
 Carbonate rocks 1241
 Carbon isotopes 392
 Cathodoluminescence 310
 Cech, Frantisek, memorial of 211
 CdCO₃ 643
 Chesofite 1038
 Chlorine concentration 1187
 Chlorite 109
 Christelite 207
 Chrombismite 1261
 Chromomphacite 620
 Clarkeite 607
 Clerite 620
 Clinopyroxene 259, 689, 923, 1198
 Clinzoisite 61
 Clintonite 936

- Cl-rich amphibole 316
 CO₂ solubility 368
 C-H-O 337
 Cobalt-richterite 291
 Coesite 452
 Cookeite 1007
 Compressibility
 clinozoisite 61
 forsterite 663
 hedenbergite 245
 kyanite 467, 460,
 magnesite 682
 zoisite 61
 Core formation 526
 Corrensite 109
 Corundum 460, 452
 Cosmic ray exposure age 1187
 (Cr,V,Fe)₂(Ti,V,Nb)O₅ 209
 Crystal growth
 garnet 596
 geothite 1091
 hematite 1091
 plagioclase 596
 sinoite 1001
 TiO₂ 717
 Type I hydrate 88
 Type II hydrate 88
 Type H hydrate 88
 vesuvianite 596
 wairakite 781
 Crystal structure
 alkali 1141
 alkaline earth silicates 1141
 amphibole 291, 708
 Al-phlogopite 936
 aragonite 643
 BaCrSi₄O₁₀ 697
 bechererite 1014
 birnessite 946, 962
 CaSi₂O₅ 836
 Ca₂TiSiO₆ 475
 clarkeite 607
 clinopyroxene 689
 clinozoisite 61
 clintonite 936
 cookeite 1007
 dessauite 807
 fluorapatite 870
 forsterite 663
 kalsilite 276
 kaolinite 657
 kyanite 460
 leucite 16
 lizardite-2H₂ 931
 lukechangite-(Ce) 1255
 maghemite 1101
 magnesite 682
 magnetite 1101
 Mg₂SiO₄ 913
 mozartite 841
 hedenbergite
 kyanite 467
 orthopyroxene 689
 phase D 651
 pyroxene 143
 richterite 291
 SrCrSi₄O₁₀ 697
 stilbite 729
 surite 416
 superfluorous phase B 467
 terranoite 423
 titanite 44, 512
 vandendriesscheite 1176
 wadsleyite 270
 x-P6O₂ structure 1042
 zirconolite 44
 zoisite 61
 Crystal synthesis
 alkali 1141
 alkaline earth silicates 1141
 almandine 571
 aluminous tremolite 280
 amphibole 291
 antigorite 760
 auriferous pyrite 182
 auriferous arsenopyrite 182
 biotite 1225
 Ca₂TiSiO₆ 475
 CdCO₃
 clinopyroxene 689
 fluorapatite 870
 garnet 1225
 hydrous magnesium silicate 651
 leucite 16
 micas 497
 monazite 772, 764
 orthopyroxene 345, 689
 pyroxene 143
 richterite 291
 spessartine
 titanite 512, 754, 748
 TiO₂ 717
 wairakite 781
 xenotime 772
 Cu-bearing silicate 143
 Cummingtonite 1079

 Decomposition 1198
 Deloryite 623
 Dessauite 807
 Diffusion
 carbon isotopes 392
 forsterite 1049
 garnet 1225
 heulandite 517
 maghemite 1101
 magnetite 1101
 oxygen isotopes 392
 quartz 99
 Displacive phase transitions 213
 DTA, TGA
 surite 416
 TiO₂ 717
 Dusmatovite 430

 Elasticity
 MgSiO₃ perovskite 635
 Electron diffraction
 anorthite 99, 125
 antigorite 760
 birnessite 946, 962
 chlorite 109
 corrensite 109
 ferroceladonite 503
 ferroaluminoceladonite 503
 greigite 302
 illite 379
 illite-smectite 379
 mackinawite 302
 maghemite 1101
 magnetite 1101
 plagioclase 125, 1073
 potassium feldspar 1073
 saléeite 888
 smectite 379
 quartz 99
 Electron microscopy
 alkali feldspar 557
 anorthite 99, 125
 antigorite 760
 biotite 1225
 chlorite 109
 corrensite 109
 cummingtonite 1079
 ferroceladonite 503
 ferroaluminoceladonite 503
 forsterite 310
 garnet 1225
 geothite 1091
 greigite 302
 hematite 1091
 hornblende 1079
 illite 379
 illite-smectite 379
 mackinawite 302
 maghemite 1101
 magnetite 1101
 plagioclase 125, 1073
 potassium feldspar 1073
 saléeite 888
 smectite 379
 surite 416
 magnetite 131
 spinel 131
 TiO₂ 717
 quartz 99
 Enstatite 1001
 Ericksen, George E., memorial of 1046
 Experimental petrology
 ab₅₀jd₅₀ 1063
 antigorite 760
 biotite 1225
 carbonate 259
 clinopyroxene 259, 923, 1198
 corundum 452
 f_{H2} 337
 garnet 1225
 H₂O solubility 549
 jd₃₃ne₆₆ 1063
 kyanite 452
 laumontite 781
 magnesiowüstite 526

- mica 1198
 monazite 772
 $ne_{33}jd_{66}$ 1063
 piston-cylinder apparatus 337
 rhyolite 434
 stishovite 452
 wairakite 781
 xenotime 772
- Fairchildite 546
 Fayalite 672
 Feldspar 149
 Ferriphlogopite 430
 Ferroaluminoceladonite 503
 Ferroceladonite 503
 Fettelite 621
 f_{H_2} 337
 Fluid phase
 Fluorapatite 870
 C-H-O 337
 Forsterite 310, 663, 1049
 Fougérite 1038
 Frankamenite 431
 Freudenbergite 991
- Gallobeudantite 1039
 Garnet 165, 354, 596, 582, 1225
 Geochemistry
 amphibole 790
 Au 182
 Be 194
 beryl 194
 chlorine concentration 1187
 freudenbergite 991
 hydrogen 1111
 ilmenite 991
 kaersutite 790
 marcasite 900
 REE 630
 TiO₂ 717
 water 1111
 Geochronology
 Ar-Ar 1187
 Geothite 1091
 Glasses 1116
 Glass properties
 $ab_{50}jd_{50}$ 1063
 albite 979
 barium silicate 1116
 calcium silicate 1116
 jadeite 979
 $jd_{33}ne_{66}$ 1063
 $ne_{33}jd_{66}$ 1063
 nepheline melts 979
 Ti-silicate 36
 Gottardiite 207, 431
 Grandidierite 479
 Granulites 345, 392
 Graphite 392
 Greigite 302
 Grossular 497
- H in Mg₂SiO₄ 913
 H₂O 549
- H₂O solubility 368, 549
 Hedenbergite 245
 Hematite 1091
 Heulandite 517
 High-pressure studies
 biotite 1225
 CaSi₂O₆ 836
 Ca₂TiSiO₆ 475
 CdCO₃ 643
 clinopyroxene 259, 1198
 cliozoisite 61
 corundum 452
 garnet 354, 1225
 hedenbergite 245
 kyanite 467, 452
 magnesite 682
 MgO 51
 Mg₂SiO₄ 913
 MgTiO₃ 639
 mica 1198
 monazite 772
 montmorillonite 69
 phase D 651
 pigeonite 354
 stishovite 452
 superfluorous phase B 467
 wadsleyite 270
 xenotime 772
 zoisite 61
 High-temperature studies
 clinopyroxene 689
 leucite 16
 orthopyroxene 689
 spinel 1125
 stilbite 729
 titanite 677
 tsaregorodtsevitse 405
 Hornblende 1079
 Hydrogen 1111
 Hydrous magnesium silicate 651
- Imoriite-(Y) 433
 Igneous petrology
 alkali basalt 368
 basanite nephelinite 368
 beryl 194
 kimberlite 991
 komatiites 354
 lunar rocks 630
 metasomatism 991
 phonolite 549
 pyroxene 534
 rhyolite 434
 Igunnovite 1038
 Illite 379
 Illite-smectite 79, 379
 Ilmenite 991
 Intersilite 621
 Ion-exchanged analogues 1133
 IR spectroscopy
 aluminous tremolite 280
 amphibole 291, 708
 analcime 1111
 anatase 203
 beryl 1054
- hydrogen 1111
 mozarite 841
 phonolite 549
 richterite 291
 surite 416
 water 1111
 Isocubanite 210
- Jáchymovite 207
 Jadeite 979
 $jd_{33}ne_{66}$ 1063
 Jentschite 431, 1261
 Jørgensenite 1261
 Juabite 1262
- Kaersutite 790
 Kalsilite 276
 Kaolin 203
 Kaolinite 657
 K₂Ca₂(CO₃)₃ 546
 Keyite 210
 Kimberlite 991
 Kinetic model 325
 Kinetics
 anorthite 99
 biotite 1225
 garnet 1225
 laumontite 781
 marcasite 900
 montmorillonite 69
 multi-site order-disorder 325
 plagioclase 1073
 potassium feldspar 1073
 quartz 99
 TiO₂ 717
 wairakite 781
 Komatiites 354
 Krasnovite 621
 KREEP 630
 K-rich clinopyroxene 259
 Kukhareenkoite 1039
 Kyanite 467, 460, 452
- Laumontite 781
 Leisingite 208
 Leucite 8, 16, 1133
 Lukechangite-(Ce) 1255
 Liottite 623
 Lizardite-2H₂ 931
 Low albite 158
 Lunar rocks 630
- Mackinawite 302
 Maghemite 1101
 Magnesite 682
 Magnesiowüstite 526
 Magnetic properties
 maghemite 1101
 magnetite 131, 1101
 spinel 131
 Magnetite, spinel 131, 1101
 Malladrite 1041
 Marcasite 900
 Mahnerite 1262

- Mechanical properties
 forsterite 663
 MgSiO₃ perovskite 635
 MgO 51
 periclase 441
 Melt 534, 1116
 Melt and glass properties
 H₂O solubility 368, 434
 CO₂ solubility 368
 Melt structure
 albite 979
 jadeite 979
 nepheline 979
 Ti-silicate 36
 Memorials
 Cech, Frantisek 211
 Ericksen, George E. 1046
 Meyer, Henry O.A. 438
 von Gehlen, Kurt 1044
 Meta-ankoleite 483
 Meta-autunite 483
 Metamict state 44
 Metamorphic petrology
 Antarctica 392
 biotite 1225
 carbonate rocks 1241
 garnet 1225
 granulites 392
 laumontite 781
 monazite 772
 wairakite 781
 xenotime 772
 Metasomatism 991
 Meteorite
 allegan 1187
 Allende 310
 enstatite 1001
 Murchison 310
 olivine 1001
 semaskona 534
 sinoite 1001
 Meurigite 622
 Meyer, Henry O.A. memorial of 438
 MgO 51
 Mg₂SiO₄ 913
 MgSiO₃ perovskite 635
 MgTiO₃ 639
 Micas 497, 1198
 Microcline 158
 Mineral "A" 1264
 Mineral nomenclature
 amphiboles 1019
 Mixing properties of Fe-Al Opx 345
 Molecular dynamics simulation 1042
 Monazite 772, 764
 Montmorillonite 69
 Mössbauer spectroscopy
 akaganéite 1187
 almandine 571
 almandine-pyrope 740
 almandine-spessartine 740
 clinopyroxene 923
 maghemite 1101
 magnetite 1101
 pyrope 571
 spessartine 571
 Mozartite 841
 Multi-site order-disorder 325
 Murchison 310
 Na-Ca zeolite 210
 Na-dominant loparite 623
 Na-dominant roméite 1264
 Natroxalate 432
 Nb-dominant baotite 433
 Ne₃₃jd₆₆ 1063
 Nepheline 979
 Nepheline melts 979
 Neutron diffraction
 almandine 571
 leucite 16
 spessartine 571
 New minerals
 dessauite 807
 ferroceladonite 503
 ferroaluminoceladonite 503
 lukechangite-(Ce) 1255
 terranovaite 423
 New Mineral Data (abstracts)
 afghanite 1264
 blatterite 210
 deloryite 623
 iimoriite-(Y) 433
 isocubanite 210
 keyite 210
 liottite 623
 malladrite 1041
 mineral "A" 1264
 schoepite 623
 shomiokite-(Y)
 spiroffite 433
 synchysite-(Y) 624
 New minerals (abstracts)
 afanasyevaite 1038
 Ag and Pb tellurides-sulfides 209
 Ag_{0.66}Pb_{0.88}Bi_{0.1}Sb_{1.33}S₄ 1264
 Ag₃Pb₃Bi₃S₇ 1040
 Al₂Cl(OH)₅·2H₂O, Al₅Cl₃(OH)₁₂·7.5
 H₂O 623
 Al₂Mg₄(OH)₁₂(CO)·3H₂O 1041
 bafertsite-like 433
 baksanite 1038
 belovite-(La) 620
 benauite 430
 calcioaravaipaite 207
 chesofiite 1038
 christelite 207
 chrombismite 1261
 chromomphacite 620
 clerite 620
 (Cr,V,Fe)₂(Ti,V,Nb)O₅ 209
 dusmatovite 430
 ferriphlogopite 430
 frankamenite 431
 fettelite 621
 fougérite 1038
 gallobeudantite 1039
 gottardiite 207, 431
 η-Al₂O₃ 623
 igumnovite 1038
 intersilite 621
 (Ir,Os)(As,Te) 1263
 (Ir,Os)(S,As,Te)₂ 1263
 (Ir,Os)Te₂ 1263
 (Ir,Os)(Te,As) 1263
 Ir-Ru-Os alloy 1263
 jáchymovite 207
 jentschite 431, 1261
 jørgensenite 1261
 juabite 1262
 krasnovite 621
 kukharenkoite 1039
 leisingite 208
 mahnertite 1262
 meurigite 622
 Na-Ca zeolite 210
 Na-dominant loparite 623
 Na-dominant roméite 1264
 Natroxalate 432
 Nb-dominant baotite 433
 Nezilovite 1039
 piretite 1040
 Pd₃(As,Sb,Te)₃ 209
 PdSn₂, Pd₃Se₂ 1040
 Pt(Ni,Fe)₃ 209
 Pt₃Cu 1263
 pyatenkoite-(Y) 622
 Rh₂As 1263
 rhythmite 1038
 rosiaite 208
 (Ru,Ir,Os)Te 1263
 Ru-Ir-Pt 1263
 RuO₂ 1263
 Ru-Os-Ir 1263
 Ru-Pt-Ir alloy 1263
 (Ru,Rh)(Te,Sb)₃ 1263
 sheldrickite 1262
 shkatulkalite 432
 sigismundite 432
 tetragonal (Zn,Mn)Fe₂O₄ 1041
 Ti-bearing minerals 433
 wadsleyite 1040
 wesselsite 622
 yttroapatite 209
 zajacite-(Ce) 1040
 Nezilovite 1039
 Nickel-richterite 291
 NMR spectroscopy
²⁷Al NMR 1133
²⁹Si NMR 1133
 Al-27 280
 aluminous tremolite 280
 barium silicate glasses 1116
 calcium silicate glasses 1116
 grandidierite 479
 ion-exchanged analogues 1133
 leucite 1133
 Si-29 280
 spinel 1125
 tsaregorodtsevitse 405

- Oligoclase 149
Olivine 1001
Optical properties
 dessautite 807
 fayalite 672
 ferroceladonite 503
 ferroaluminoceladonite 503
 heulandite 517
 lukechangite-(Ce) 1255
 sinoite 1001
 terranoivaite 423
 Type H hydrate 88
Optical spectroscopy
 $ab_{30}jd_{50}$ 1063
 $BaCrSi_4O_{10}$ 697
 fayalite 672
 forsterite 310
 $jd_{33}ne_{66}$ 1063
 $ne_{33}jd_{66}$ 1063
 $SrCrSi_4O_{10}$ 697
Order-disorder
 Al-Mg 280
 Al-Si 280
 alkali feldspar 8
 amphibole 291
 anorthite 99, 125
 bechererite 1014
 clinopyroxene 923
 cookeite 1007
 feldspar 149
 glasses 1116
 ion-exchanged analogues 1133
 kinetic model 325
 leucite 1133
 maghemite 1101
 magnetite 131, 1101
 melts 1116
 metamict state 44
 oligoclase 149
 plagioclase 8, 149, 1073
 potassium feldspar 1073
 richterite 291
 spinel 131, 1125
 tectosilicate melt 979
 tsaregorodtsevite 405
Orthopyroxene 345, 689
Oxygen isotopes 392

Partition coefficients
 pyroxene 534
 $Pd_3(As,Sb,Te)_2$ 209
 $PdSn_2, Pd_3Se_2$ 1040
Periclase 441
Perovskite 441
Phase D 651
Phase X 1198
Phase equilibria
 alkali feldspar 8
 almandine-orthopyroxene 345
 biotite 1225
 carbonate rocks 1241
 clinopyroxene 1198
 coesite 452
 corundum 460, 452
 garnet 165, 354, 1225
 illite 379
 illite-smectite 379
 komatiite 354
 kyanite 460, 452
 leucite 16
 mica 1198
 monazite 772
 montmorillonite 69
 plagioclase 8, 1073
 potassium feldspar 1073
 pyrite-arsenopyrite 182
 pyroxene 354
 smectite 379
 stishovite 460, 452
 TiO_2 717
 Type H hydrate 88
 xenotime 772
Phase transition
 alkali feldspar 8
 anorthite 99
 $CaSi_2O_5$ 836
 decomposition 1198
 displacive 213
 ion-exchanged analogues 1133
 leucite 8, 1133
 mica 1198
 plagioclase 8, 1073
 potassium feldspar 1073
 quartz 99
 rigid-unit mode
 titanite 677
Phonolite 549
Phosphate 764
Pigeonite 354
Piretite 1040
Piston-cylinder apparatus 337
Plagioclase 8, 149, 125, 596, 1073
Planetary studies
 anorthosite 630
 KREEP 630
 lunar rocks 630
Polytypism
 Al-phlogopite 936
 clintonite 936
 ferroceladonite 503
 ferroaluminoceladonite 503
 lizardite- $2H_2$ 931
 TiO_2 717
 Type I hydrate 88
 Type II hydrate 88
 Type H hydrate 88
Potassium feldspar 1073
 $Pt(Ni,Fe)_3$ 209
 Pt_3Cu 1263
Pyatenkoite-(Y) 622
Pyrite-arsenopyrite 182
Pyrope 571
Pyroxene 143, 534

Quantum mechanical calc.
 fayalite 672
 forsterite 663, 1049
 kaolinite 657
 MgO 51
 Mg_2SiO_4 913
 $MgSiO_3$ perovskite 635
Quartz 99

Radiogenic isotopes
 cosmic ray exposure age 1187
Raman spectroscopy
 anatase 203
 beryl 1054
 kaolin 203
 rutile 203
REE 630
 fluorapatite 870
 lukechangite-(Ce) 1255
 melt 534
 monazite 772
 pyroxene 534
 REE-phosphate 764
 xenotime 772
REE-phosphate 764
Rhyolite 434
 Rh_2As 1263
Rhythmite 1038
Richterite 291
Rhodochrosite 643
Rosiaite 208
 $(Ru, Ir, Os)Te$ 1263
Ru-Ir-Pt 1263
 RuO_2 1263
Ru-Os-Ir 1263
Ru-Pt-Ir alloy 1263
 $(Ru, Rh)(Te, Sb)_2$ 1263
Rutherfordine 483
Rutile 203

Saléeite 888
Schoepite 623
Semarkona 534
Sheldrickite 1262
Shkalkalite 432
Shomiokite-(Y) 210
Sigismundite 432
Si-29 280
 SiO_2 1042
SIMS 630
Sinoite 1001
Smectite 379
Spessartine 571
Spinel 131, 1125
Spiroffite 433
 $SrCrSi_4O_{10}$ 697
Stable isotopes
 O 392
 C 392
Stilbite 729
Stishovite 460, 452
Structure-energy calc.
 alkali feldspar 8
 beryl 1054
 forsterite 663, 1049
 kaolinite 657
 Mg_2SiO_4 913
 molecular dynamics simulation 1042

- plagioclase 8
 TiO₂ 717
 Sulfur 1210
 Superfluorous phase B 467
 Surface studies
 calcite 878
 marcasite 900
 Surite 416
 Synchysite-(Y) 624

 Tectosilicate melt 979
 Terranovaite 423
 Tetragonal (Zn,Mn)Fe₂O₄ 1041
 Theoretical mineralogy
 perovskite 441
 Thermobarometry
 alkali feldspar 557
 almandine-pyrope 740
 almandine-spessartine 740
 amphibole 790
 biotite 582
 garnet 165, 582
 granulites 345
 kaersutite 790
 monazite 772
 stilbite 729
 xenotime 772
 Thermodynamics
 alkali feldspar 158
 almandine 571
 beryl 1054
 biotite 582, 1225
 bütschliite 546
 clinopyroxene 923
 fairchildite 546
 feldspar 149
 garnet 165, 582
 K₂Ca₂(CO₃)₃ 546
 kyanite 452
 mixing properties of Fe-Al Opx 345
 oligoclase 149
 plagioclase 149
 pyrope 571
 spessartine 571
 stishovite 452
 tectosilicate melt 979
 TiO₂ 717
 titanite 754
 Ti 44
 Ti-bearing minerals 433
 TiO₂ 717
 Ti-silicate 36
 Titanite 44, 512, 677, 754, 748
 Trace elements 630
 Au 182
 Be 194
 garnet 596
 H in Mg₂SiO₄ 913
 magnesiowüstite 526
 melt 534
 pyroxene 534
 REE 630
 sulfur 1210
 titanite 512

 vesuvianite 596
 Tsaregorodtsevitse 405
 Type I hydrate 88
 Type II hydrate 88
 Type H hydrate 88

 Unit-cell data
 Al-phlogopite 936
 alkali feldspar 158
 almandine 571
 almandine-pyrope 740
 almandine-spessartine 740
 aluminous tremolite 280
 amphibole 708
 BaCrSi₄O₁₀ 697
 bechererite 1014
 CaSi₂O₅ 836
 CdCO₃ 643
 clarkeite 607
 clinopyroxene 689
 clinozoisite 61
 clintonite 936
 cobalt-richterite 291
 cookeite 1007
 feldspar 149
 ferroceladonite 503
 ferroaluminoceladonite 503
 greigite 302
 heulandite 517
 kalsilite 276
 kyanite 467, 460
 leucite 16
 lizardite-2H, 931
 low albite 158
 lukechangite-(Ce) 1255
 mackinawite 302
 maghemite 1101
 magnesite 682
 magnetite 1101
 Mg₂SiO₄ 913
 MgTiO₃ 639
 microcline 158
 monazite 772
 mozartite 841
 nickel-richterite 291
 oligoclase 149
 orthopyroxene 689
 phase D 651
 plagioclase 149
 pyrope 571
 spessartine 571
 SrCrSi₄O₁₀ 697
 stilbite 729
 superfluorous phase B 467
 surite 416
 terranovaite 423
 titanite 512, 748
 vandendriesscheite 1176
 wadsleyite 270
 xenotime 772
 zoisite 61
 Unnamed minerals
 Ca_{0.8-1}Al_{0.2-1}SiO_n(OH)_m • X H₂O 1241
 Ca_{3.5}(Th,U)_{1.5}(SiO₄)₃(OH) 1241

 Na₂CaAl₄Si₄O₁₆ • X H₂O 1241
 Na₂Ca₄Si₆O₁₅(OH)₄ 1241
 phase X 1198
 Uranophane 483
 Uranyl diacetate 483
 Uranyl ion 483
 Uranyl nitrate 483

 Vandendriesscheite 1176
 Vesuvianite 596
 von Gehlen, Kurt, memorial of 1044

 Wadsleyite 270, 1040
 Wairakite 781
 Water 1111
 Water solubility 434
 Wesselsite 622

 X-P6O₅ 1042
 XAS (XAFS, XANES)
 albite 497
 birnessite 946, 962, 1150
 buserite 1150
 grossular 497
 meta-ankoleite 483
 meta-autunite 483
 micas 497
 rutherfordine 483
 Ti 44
 Ti-silicate 36
 uranophane 483
 uranyl diacetate 483
 uranyl ion 483
 uranyl nitrate 483
 XPS
 marcasite 900
 XRD data
 akaganéite 1187
 almandine 571
 almandine-pyrope 740
 almandine-spessartine 740
 antigorite 760
 BaCrSi₄O₁₀ 697
 birnessite 1150
 buserite 1150
 chlorite 109
 clarkeite 607
 clinopyroxene 689
 clinozoisite 61
 clintonite 936
 cookeite 1007
 corrensite 109
 Cu-bearing silicate 143
 dessauite 807
 feldspar 149
 ferroceladonite 503
 ferroaluminoceladonite 503
 greigite 302
 hedenbergite 245
 illite-smectite 79
 kalsilite 276
 kyanite 460
 lukechangite-(Ce) 1255
 mackinawite 302

maghemite 1101
magnetite 131, 1101
monazite 772
oligoclase 149
orthopyroxene 689
plagioclase 149
pyrope 571
spessartine 571

spinel 131
SrCrSi₄O₁₀ 697
stilbite 729
surite 416
terranoivaite 423
titanite 512, 677
tsaregorodtsevite 405
wadsleyite 270

xenotime 772
zoisite 61

Yttrapatite 209

Zajacite-(Ce) 1040
Zirconolite 44
Zoisite 61