

SUBJECT INDEX, VOLUME 81, 1996

- Ag_3TeS 1013
 ^{40}Ar 940
 $\text{AuO}(\text{OH})$ 1282
 $\text{AuO}(\text{OH},\text{Cl})\cdot n\text{H}_2\text{O}$ 766
 Achtarandite 516
 Afghanite 1003
 Albite 92, 452, 789, 1133, 1344, 1413
 Alkali feldspar 92, 719, 800, 1425
 Almandine 418
 Altisite 516
 Aluminate sodalite 1375
 Aluminosilicate glasses 265
 Alumoklyuchevskite 249
 Amphibole 135, 495, 1126
 Analcime 39
 Analysis, chemical (mineral)
 albite 92
 alkali feldspar 719
 almandine 418
 amphibole 135, 495
 androsite-(La) 735
 apatite 515
 augite 1166
 bechererite 244
 betafite 1237
 biopyribole 404
 biotite 135, 141, 495, 1396, 1460
 brewsterite 1501
 calcite 181, 485
 cancrinite group 1003
 carbonate-fluorapatite 513, 515
 chalcopyrite 187
 chlorite 79, 676, 1396
 columbite-tantalite 146
 cookeite 67
 cordierite 141
 cunningtonite 363, 928
 diopside 485
 dolomite 181, 485
 dozyite 79
 epidote 462
 ferriphlogopite 913
 fianelite 1270
 florencite-(La) 1263
 fluorapatite 515
 fluor-cannilloite 995
 fluor-ferro-leakeite 226
 forsterite 485, 1523
 garnet 181, 706, 1460
 geikielite 485
 hornblende 928
 hyttsjöite 743
 kalsilite 561, 1360
 kaolinite 26
 kinoshitalite 485
 laumontite 658
 leonhardite 658, 668
 liandratite 1237
 magnesiochromite 1186
 magnesite 181
 medenbachite 505
 muscovite 141, 1460
 namuwite 238
 nanpingite 105
 nepheline 561, 1360
 olivine 194, 1519
 omphacite 181
 orthopyroxene 676, 842
 pentlandite 187
 phlogopite 202, 485, 913
 pigeonite 1166
 plagioclase 141, 913, 982, 1460
 potassium feldspar 141
 pumpellyite 603
 pyralpitic garnet 418
 pyrite 119, 187
 pyrope 418, 706
 pyroxene 202, 525, 1438, 1523
 pyrrhotite 187
 qandilite 485
 quartz 891
 REE-bearing piemontite 735
 rutile 202, 1237
 sanidine 229
 scapolite 169
 serpentine 79
 serpentine-chlorite 213
 sillimanite 141
 sphalerite 187
 spinel 485
 staurolite 1460
 tetrakalsilite 561
 tourmaline 1222
 tremolite 485, 1117
 wairakite 658
 yugawaralite 658
 zircon 902
 Analysis, chemical (rock)
 bebedourite 913
 dunite 913
 florencite-(La) 1263
 glass 229
 granitic melt 202
 kaolin 26
 migmatite 141
 orendite 229
 peridotite 79
 rhyolite 158
 rhyolitic glass 158, 1249
 sandstone 213
 serpentinite 79
 volcanic glass 1176
 volcanic rocks 982
 Analysis, surface (mineral)
 calcite 1
 pyrite 261
 Anatexis 141
 Androsite-(La) 735
 Ankerite 1141
 Annite 475
 Annite-sanidine-magnetite 475
 Anorthoclase 1332
 Antimonelite 1013
 Antitaenite 766
 Apatite 864, 1476
 Aragonite 181, 611
 Arsenogorcoexite 249
 Asteroid 525
 Augite 685, 1166
 Awards
 Mineralogical Society of America
 Award, acceptance of 777
 Mineralogical Society of America
 Award, presentation of 775
 Roebbling Medal, acceptance of 773
 Roebbling Medal, presentation of 771
 $\beta\text{-As}_4\text{S}_4$ 874
 $\beta\text{-Mg}_2\text{SiO}_4$ 585
 $\beta\text{-Si}_3\text{N}_4$ 249
 B 141
 $\text{Ba}(\text{Ti}_3\text{Fe}_4\text{Mg}_2\text{Cr})_{\text{E}12}\text{O}_{19}$ 766
 $\text{Bi}_3(\text{Te},\text{Se},\text{S})_4$ 516
 Babkinite 1513
 Baddeleyite 485
 Bailey, Sturges William, Memorial of 521
 Ballachulish aureole 485
 Barian mica 1513

- Bebedourite 913
 Bechererite 244
 Belovite-(Ce) 1282
 Beryl 395
 Betafite 1237
 Biopyribole 404
 Biotite 135, 141, 462, 495, 940,
 1396, 1460
 Biotite-5M 766
 Book reviews
 Carey, J.W.: *Thermodynamics in
 Geochemistry: The Equilibrium
 Model*. By G.M. Anderson and
 D.A. Crerar 255
 Essene, E.J.: *Glossary of Mineral
 Species*. By M. Fleischer and
 J.A. Mandarino 781
 Griffen, D.T.: *Physics and
 Chemistry of Earth Materials*.
 By A. Navrotsky 1287
 Gunter, M.E.: *Crystal
 Identification with the
 Polarizing Microscope*. By R.E.
 Stoiber and S.A. Morse 255
 Heaney, P.J.: *Handbook of
 Mineralogy*, Vol. 2: *Silica,
 Silicates*. By J.W. Anthony, R.A.
 Bideaux, K.W. Bladh, and M.C.
 Nichols 524
 Maurice, P.A.: *Mineral Surfaces*.
 Edited by D.J. Vaughan and
 R.A.D. Patrick 1020
 Virgo, D.: *Applied Mössbauer
 Spectroscopy: Theory and
 Practice for Geochemists and
 Archaeologists*. Edited by S.
 Mitra 1287
 Borcarite 516
 Bottinoite 1494
 Brewsterite 1501

 Ca self-diffusion 448
 CaCoSiO₄ 963
 CaCoSi₂O₆ 963
 Ca₂CoSi₂O₇ 963
 CaSiO₃ perovskite 1293
 Cd 864
 Cu-Au 1021
 Cu₄Pb₁₁Bi₁₆S₃₇ 1013
 Cadmium aluminum phosphate 516
 Calcioburbankite 1013
 Calcite 1, 181, 485, 1141
 Calcybeborosilite 1513
 Cancrinite group 1003
 Carbonate 1021
 Carbonate-fluorapatite 513, 515
 Carbonatite 1237
 Cathodoluminescence 891

 Cebaite-(Ce) 249
 Chalcopyrite 187
 Chengdeite 516
 Chert 1380
 Chiavennite 1013
 Chlorite 79, 676, 1396
 Chlorite-biotite 1396
 Chloritization 79
 Chondrodite 317
 Chromite 1452
 Claringbullite 516
 Clinoamphibole 1425
 Clinoatacamite 1282
 Clinohumite 317
 Clinoptilolite-H₂O 952
 Clinopyroxene 632, 685
 Clinozoisite 335, 341
 Coesite 181, 1217
 Coesite-bearing eclogite 1217
 Coesite-quartz transition 1217
 Columbite-tantalite 146
 Compressibility measurements
 aragonite 611
 clinozoisite 341
 dolomite 611
 epidote 341
 forsterite 51
 katoite 1097
 LiScSiO₄ 327
 lawsonite 341, 833
 MgSiO₃ ilmenite 45
 (Ni,Mg)₂SiO₄ olivine 1519
 olivine 51, 327
 zoisite 341
 Cookeite 67
 Copper aluminum phosphate 516
 Copper antimony selenide 1513
 Cordierite 39, 141, 349
 Corundum 676
 Cristobalite 1057, 1380
 Crystal growth
 annite 475
 brewsterite 1501
 calcite 1
 chlorite-biotite 1396
 chromite 1452
 magnetite 475
 oscillatory zoning 982
 quartz 158
 sanidine 475
 Crystal structure
 albite 1344
 androsite-(La) 735
 bechererite 244
 biopyribole 404
 bottinoite 1494
 brewsterite 1501
 calcite 1
 carbonate-fluorapatite 515
 chlorite-biotite 1396
 clinopyroxene 632
 cummingtonite 363
 defernite 625
 diopside 632, 811
 enstatite 1321
 ferriphlogopite 913
 fianelite 1270
 fluorapatite 515
 fluor-cannilloite 995
 garnet 61, 429
 gypsum 847
 hematite 1301
 hennomartinite 9
 hillebrandite 1371
 hyttjsjöite 743
 illite 852
 illite-smectite 852
 katoite 1097
 LiScSiO₄ 327
 laurelite 1277
 lawsonite 833
 lead feldspar 1337
 lizardite-1T 1111
 MgSiO₃-rich garnet 1289
 majorite 1289
 malayaite 595
 medenbachite 505
 microcline 1344
 Na₆Si₃[Si₉O₂₇] 1105
 (Ni,Mg)₂SiO₄ olivine 1519
 namuwite 238
 nanpingite 105
 olivine 327
 orthopyroxene 842, 1321, 1438
 phlogopite 913
 pigeonite 1438
 pumpellyite 603
 pyroxene 525
 quartz 891
 REE-bearing piemontite 735
 SiO₂ 785
 sanidine 229
 scapolite 169
 serpentine-chlorite 79, 213
 titanite 1527
 tremolite 1117
 zircon 902
 Crystal synthesis
 alkali feldspar 719
 ankerite 1141
 carbonate-fluorapatite 515
 chlorite 676
 chondrodite 317
 clinohumite 317
 corundum 676
 fluorapatite 515

- forsterite 676
 holtedahlite 385
 kalsilite 1360
 lead feldspar 1337
 lead oxychloride 1350
 $\text{Na}_6\text{Si}_3[\text{Si}_2\text{O}_{27}]$ 1105
 orthopyroxene 676
 phase A 317
 phase B 317
 phosphoellenbergerite 385
 potassium richterite 56
 pyroxene 1126
 spinel 676
 superhydrous B 317
 tremolite 1117
 Cummingtonite 363, 928
- Davyne 1003
 Defernite 625
 Diaspore 335
 Diffusion
 ^{40}Ar 940
 forsterite 51, 1315
 garnet 1208
 glass 1148
 grossular 448
 pyrope 706
 pyroxene 1166
 Diogenite 525, 1438
 Diopside 485, 632, 811
 Dolomite 181, 485, 611, 1141
 Dozyite 79
 DTA, TGA
 ankerite 1141
 clinoptilolite- H_2O 952
 granitic melt 1297
 laumontite 658
 leonhardite 658, 668
 wairakite 658
 yugawaralite 658
 Dunitite 913
 Duporthite 1013
 Dzharkenite 1013
- Eclogite 181
 Edenharterite 516
 Electrical properties (pyrite) 1036
 Electron density 1344
 Electron diffraction
 aluminate sodalite 1375
 amphibole 1126
 biopyribole 404
 biotite 1396
 chlorite 1396
 chlorite-biotite 1396
 columbite-tantalite 146
 cookeite 67
 cristobalite 1380
- hillebrandite 1371
 illite 852
 illite-smectite 852
 kalsilite 561, 1360
 lawsonite 833
 lead oxychloride 1350
 marcasite 119
 nepheline 561, 1360
 opal (microcrystalline) 1380
 orthopyroxene 842
 pyrite 119, 261
 pyroxene 1126
 sanidine 229
 serpentine-chlorite 79
 tetrakalsilite 561
 tremolite 1126
 tridymite 1380
- Electron microscopy
 aluminate sodalite 1375
 amphibole 1126
 apatite 1476
 biopyribole 404
 biotite 1396
 chlorite 1396
 chlorite-biotite 1396
 columbite-tantalite 146
 cookeite 67
 cristobalite 1380
 cummingtonite 928
 fianelite 1270
 garnet 1208
 hillebrandite 1371
 hornblende 928
 kalsilite 561, 1360
 magnesiocromite 1186
 magnetite 375
 malayaite 595
 marcasite 119
 nepheline 561
 opal (microcrystalline) 1380
 pyrite 119
 pyroxene 1126, 1438
 serpentine-chlorite 79
 spinel 375
 tetrakalsilite 561
 tremolite 1126
 tridymite 1380
- Enstatite 1321
 Epidote 341, 462
 Epistilbite 1513
 Eucrite 525, 1438
 Expansivity measurements
 clinozoisite 335
 diaspore 335
 glass 1148
 gypsum 847
 $\text{K}_2\text{MgSi}_5\text{O}_{12}$ 369
 lawsonite 335, 833
- leucite 369
 lizardite-17 1111
 zoisite 335
 Experimental petrology
 albite 452
 alkali feldspar 719
 annite 475
 augite 685
 Ca self-diffusion 448
 chlorite 676
 chondrodite 317
 clinohumite 317
 clinoptilolite- H_2O 952
 clinopyroxene 685
 corundum 676
 epidote 462
 forsterite 676
 glass 1148, 1176
 granite 202
 granodiorite 462
 granulites 202
 grossular 448
 $\text{LiAlSi}_3\text{O}_8$ 452
 magnetite 475
 majorite 1289
 orthoclase 452
 orthopyroxene 676, 685
 peraluminous melt 719
 phase A 317
 phase B 317
 pigeonite 685
 pyrope 706
 pyroxene 685
 rhyolitic glass 1176
 sanidine 475
 silicate melt 452, 1155
 spinel 676
 superhydrous B 317
 tonalite 462
 tremolite 1117
 viscosity 126, 1155
 water solubility 452
 Exsolution lamellae 1166
- F 202
 $(\text{Fe,Ru})\text{S}_2$ 766
 Fairbairn, Harold Williams, Memorial
 of 1018
 Feldspar 92, 1021, 1057
 Ferriphlogopite 913
 Fianelite 1270
 Fissiogenic REEs 1263
 Florencite-(La) 1263
 Fluorapatite 515
 Fluorbritholite-(Ce) 1013
 Fluor-cannilloite 995
 Fluor-ferro-leakeite 226

- Forsterite 51, 257, 485, 545, 676,
1315, 1523
Frankhawthorneite 516
Franzinite 1003
- Gabbronorite 1166
Ganomalite 516
Gaotaiite 249
Garnet 61, 181, 429, 462, 706,
1021, 1208, 1460
Gehlenite 349
Geikielite 485
Geminite 766
Geobarometry
 amphibole 135
 epidote 462
 pelitic schist 696
Geochemistry
 alkali feldspar 719
 betafite 1237
 calcite 1
 carbonatite 1237
 columbite-tantalite 146
 fissiogenic REE 1263
 florencite-(La) 1263
 garnet 61
 granite 146
 granitic melt 202
 hematite 1301
 mantle 754, 760
 pegmatite 1237
 peraluminous melt 719
 pyrite 1036
 pyroxene 525
 quartz 891
 rhyolitic glass 1249
Geochronology
 apatite 1476
 betafite 1237
 biotite 940
Giannettite 766
Giuseppettite 1003
Glass 111, 229, 1148, 1176
Glimmerite 913
Granite 146, 202, 1297
Granitic melt 126, 202, 1297
Granodiorite 462
Granulites 202
Gregoryite 516
Grossular 448
Guilleminite 766
Cypsum 847
- H₂O fugacity
 forsterite 1523
 glass 1148
 pyroxene 1523
Halite 303
- Halurgite 1513
Hanawaltite 1282
Haplogranitic melt 1155, 1507
Hematite 1301
Hennomartinite 9, 1080
High-pressure phases
 aragonite 181
 CaSiO₃ perovskite 1293
 chlorite 676
 chondrodite 317
 clinohumite 317
 coesite 1217
 corundum 676
 dolomite 181
 forsterite 257, 676, 1523
 garnet 181
 MgO 303
 MgSiO₃ ilmenite 45, 1092
 MgSiO₃-rich garnet 1289
 magnesiochromite 1186
 magnesite 181
 majorite 1289
 NaCl 303
 Na₆Si₃[Si₉O₂₇] 1105
 omphacite 181
 order-disorder 1021
 orthopyroxene 676
 perovskite 822
 phase A 317
 phase B 317
 phlogopite 202
 pyroxene 1523
 SiO₂ 785
 spinel 676
 superhydrous B 317
 titanite 1527
 wadsleyite 585
 zeolite 651
Hillebrandite 1371
Holtedahlite 385
Hornblende 928
Howardite 1438
Hydrogarnet 1097
Hyttisjöite 743
- (Ir,Rh)₃(Ni,Fe,Cu)₂S₃ 516
Igneous petrology
 augite 685
 biotite 462
 chromite 1452
 clinopyroxene 685
 columbite-tantalite 146
 epidote 462
 euclrite 1438
 gabbronorite 1166
 garnet 462
 granite 146, 1297
 granitic melt 126
- granodiorite 462
haplogranitic melt 1155
melt inclusions 158
norite 1166
orendite 229
orthopyroxene 685
pegmatite 105
pigeonite 685
Pinatubo 982
pyroxene 685
quartz 158
rhyolite 135, 158, 1297
tonalite 462
viscosity 1297
Illite 852
Illite-smectite 852
INAA (rhyolitic glass) 1249
Inelastic neutron scattering
 (pyrope) 19
IR spectroscopy
 albite 789
 alkali feldspar 92
 almandine 418
 beryl 395
 cancrinite group 1003
 carbonate-fluorapatite 513, 515
 diopside 811
 fluorapatite 515
 haplogranitic melt 1507
 hennomartinite 1080
 holtedahlite 385
 lawsonite 1080
 phosphoellenbergerite 385
 potassium richterite 56
 pyralispitic garnet 418
 pyrope 418, 706
 quartz 789
 tremolite 782
- Jankovicite 249
Jensenite 1282
- K₂Cr₄Al₂Si₆O₂₀(OH)₄ 1013
K₂MgSi₅O₁₂ 369
(K,NH₄)MgCl₃•6H₂O 766
K₂O-MgO-Al₂O₃-SiO₂-H₂O-TiO₂-F
 202
K(Ti₃Fe₃Ca₂Mg₂)_{Σ12}O₁₉ 766
Kalsilite 561, 1057, 1360
Kaolin 26
Kaolinite 26
Katoite 1097
Kawazulite 516
Keystoneite 249
Kinetics
 alkali feldspar 800
 apatite 1476
 brewsterite 1501

- Ca self-diffusion 448
 calcite 1
 coesite-quartz transition 1217
 diffusion 706
 exsolution lamellae 1166
 grossular 448
 magnetite 375
 (Ni,Mg)₂SiO₄ olivine 1519
 order-disorder 881
 oxidation 1036
 perovskite 822
 pyrite 1036
 pyroxenoid 822
 sanidine 229
 serpentine-chlorite 79
 spinel 375
 wadsleyite 585
 Kinichilite 249
 Kinoshitalite 485
 KMASH 202
 Koragoite 249
 Kusachiite 516
- Li 141
 LiAlSi₃O₈ 452
 LiScSiO₄ 327
 Lattice dynamics (diopside) 811
 Laumontite 658
 Laurelite 1277
 Lawsonite 335, 341, 833, 1080
 Lead feldspar 1337
 Lead oxychloride 1350
 Lead sulfantimonide 1513
 Lenaite 1282
 Leonhardtite 658, 668
 Leucite 39, 349, 369, 1057
 Liandratite 1237
 Lindackerite 1513
 Liottite 1003
 Lizardite-1T 1111, 1405
 Ludlockite 1282
 Lunar crustal rocks 1166
- Mg-dominant asbolane 766
 MgO 303
 MgSiO₃ ilmenite 45, 1092
 MgSiO₃-rich garnet 1289
 Magnesiochromite 1186
 Magnesiocoulsonite 1282
 Magnesiodumortierite 249
 Magnesite 181, 611, 1141
 Magnetic properties
 hematite 1301
 kaolinite 26
 magnetite 375
 spinel 375
 Magnetite 375, 475
 Majorite 1289
- Malayaite 595
 Manganoan taenite 1013
 Mantle 754, 760
 Marcasite 119
 Mars 525
 Mayingite 249
 Mechanical properties
 glass 1148
 granitic melt 126, 1297
 Medenbachite 505
 Melt inclusions 158
 Melt structure
 aluminosilicate glasses 265
 F 202
 granitic melt 1297
 haplogranitic melt 1155
 MgO 303
 NaCl 303
 Na₂Si₂O₅ 273
 phosphate speciation 1531
 silica 265
 silicate speciation 1531
 Memorials
 Bailey, Sturges William 521
 Fairbairn, Harold Williams 1018
 Tolman, Carl 779
 Mereiterite 249
 Mesolite 651
 Metamorphic petrology
 anatexis 141
 Ballachulish aureole 485
 chlorite 676
 chloritization 79
 coesite-bearing eclogite 1217
 cookeite 67
 corundum 676
 eclogite 181
 forsterite 676
 metapelitic rocks 696
 orthopyroxene 676
 pelitic schist 696
 pressure-temperature reaction
 history 1460
 serpentinization 79
 siliceous dolomite 485
 spessartine-almandine 1195
 spinel 676
 thermal history 1208
 tourmaline 1222
 ultra-high-pressure metamorphism
 1217
 Metapelitic rocks 696
 Meteorite
 diogenite 525
 eucrite 525, 1438
 orthopyroxene 842
 pyroxene 1438
 Serra de Magé 842
- Microcline 1133, 1344
 Microsommite 1003
 Migmatite 141
 Mineralogical Society of America
 Award
 acceptance of 777
 presentation of 775
 Moganite 1513
 Molecular dynamics
 MgO 303
 NaAlSiO₄-SiO₂ 284
 NaCl 303
 Molybdoophyllite 516
 Monte Carlo methods 39
 Moon 525, 902
 Murataite 1013
 Muscovite 141, 1460
- NaAlSiO₄-SiO₂ 284
 NaCl 303
 Na₄MnTiSi₁₀(O,OH)₂₈•4H₂O 1513
 Na₂O-SiO₂-P₂O₅ 111, 1531
 Na₂Si₂O₅ 273
 Na₄Si₃[Si₂O₂₇] 1105
 Nafertisitite 1513
 Namuwite 238
 Nanpingite 105
 Nenadkevichite, K analog of 1282
 Nepheline 561, 1360
 Neutron diffraction
 gypsum 847
 katoite 1097
 lizardite-1T 1111
 New mineral data (abstracts)
 AuO(OH) 1282
 achtarandite 516
 antimonselite 1013
 belovite-(Ce) 1282
 biotite-5M 766
 borcarite 516
 calcybeborosilite 1513
 cebaite-(Ce) 249
 chiavennite 1013
 claringbullite 516
 duporthite 1013
 edenharterite 516
 epistilbite 1513
 fluor-cannilloite 995
 ganomalite 516
 geminite 766
 giannettite 766
 guilleminite 766
 (K,NH₄)MgCl₃•6H₂O 766
 kawazulite 516
 keystoneite 249
 kinichilite 249
 lindackerite 1513
 ludlockite 1282

- moganite 1513
 molybdophyllite 516
 murataite 1013
 nenadkevichite, K analog of 1282
 olivenite 516
 parisite-(Ce) 249
 phosinaite-(Ce) 1282
 pradetite 1513
 prismaticine 1513
 protoachtarandite 516
 shigaite 1282
 sussexite 1013
 Tl-Sb-As sulfosalt 1282
 tetraferriphlogopite 1513
 tungusite 516
 zemannite 249
 zinc melanterite 1513
 zippeite 766
 New minerals (abstracts)
 Ag₃TeS 1013
 AuO(OH,Cl)·nH₂O 766
 altisite 516
 alumoklyuchevskite 249
 antitaenite 766
 arsenogorceixite 249
 β-Si₃N₄ 249
 Ba(Ti₃Fe₄Mg₂Cr)₂₁₂O₁₉ 766
 Bi₃(Te,Se,S)₄ 516
 babkinitite 1513
 barian mica 1513
 Cu₄Pb₁₁Bi₁₆S₃₇ 1013
 cadmium aluminum phosphate 516
 calcioburbankite 1013
 chengdeite 516
 clinoatacamite 1282
 copper aluminum phosphate 516
 copper antimony selenide 1513
 dzharkenite 1013
 (Fe,Ru)₂S₂ 766
 fluorbritholite-(Ce) 1013
 frankhawthorneite 516
 gaotaiite 249
 gregoryite 516
 halurgite 1513
 hanawaltite 1282
 (Ir,Rh)₃(Ni,Fe,Cu)₂S₃ 516
 jankovicite 249
 jensenite 1282
 K₂Cr₄Al₂Si₆O₂₀(OH)₄ 1013
 K(Ti₃Fe₃Ca₂Mg₂)₂₁₂O₁₉ 766
 koragoite 249
 kusachiite 516
 lead sulfantimonide 1513
 lenaite 1282
 Mg-dominant asbolane 766
 magnesiocoulsonite 1282
 magnesioidumortierite 249
 manganoe taenite 1013
 mayingite 249
 mereiterite 249
 Na₆MnTiSi₁₀(O,OH)₂₈·4H₂O 1513
 Ni₃As₃(S,Se)₄ 1513
 (Ni,Fe,Cu)₂(Ir,Rh)₂S₃ 1513
 nafertisite 1513
 nierite 249
 noélbensonite 1513
 odintsovite 1013
 olkhonskite 249
 orthowalpurkite 1013
 oulankaite 1513
 owensite 516
 PbBi₄Te₂S₂ 1282
 PbBi₄Te₃S 1282
 Pb₂Bi₂TeS₃ 1282
 Pb₂Bi₂Te₂S₃ 1282
 Pb₂Bi₃Te₂S₃ 1282
 Pb₂Bi₅Te₅S₂ 1282
 (Pd,Ag)₂(Te,Pb,Sb,Sn) 1013
 (Pd,Cu)O 1013
 (Pt,Au)_{0.66}Pd_{0.34} 1013
 Pt_{0.84}Pd_{0.16} 1013
 PtRuRh_{0.5} 766
 pinguite 766
 potassium barytolamprophyllite 766
 potassium chromium priderite 766
 (Rh,Cu)₃S₂ 516
 Rh₅S₄ 766
 rimkorolite 516
 sabelliite 1013
 shannonite 249
 smrkovecrite 1282
 sphaerobismoite 1513
 stalderrite 1013
 strakhovite 249
 studenitsite 1282
 Th₆B₈Si₇O₃₈ 766
 takedaite 516
 triclinic slawsonite 766
 tungstibite 766
 varennesite 766
 viaeneite 1013, 1282
 vlodavetsite 766
 warriorite 1282
 wupatkiite 516
 yuanfuliite 249
 zdenekite 249
 zlatogorite 1013
 New minerals (descriptions)
 androsite-(La) 735
 bechererite 244
 fianelite 1270
 fluor-cannilloite 995
 fluor-ferro-leakeite 226
 hyttsjöite 743
 medenbachite 505
 SiO₂ 785
 Ni₃As₃(S,Se)₄ 1513
 (Ni,Fe,Cu)₂(Ir,Rh)₂S₃ 1513
 (Ni,Mg)₂SiO₄ olivine 1519
 Nierite 249
 NMR spectroscopy
 analcime 39
 beryl 395
 carbonate-fluorapatite 515
 cordierite 39
 fluorapatite 515
 forsterite 545, 1315, 1523
 holtedahlite 385
 kaolinite 26
 leucite 39
 phosphoellenbergerite 385
 pyroxene 1523
 tridymite 550
 Noélbensonite 1513
 Norite 1166
 Odintsovite 1013
 Olivenite 516
 Olivine 51, 194, 327, 1021, 1519
 Olkhonskite 249
 Omphacite 181, 1425
 Opal (microcrystalline) 1380
 Optical properties
 bechererite 244
 fianelite 1270
 fluor-cannilloite 995
 fluor-ferro-leakeite 226
 hyttsjöite 743
 medenbachite 505
 tourmaline 1222
 Optical spectroscopy (garnet) 61
 Order-disorder
 albite 1133, 1344, 1413
 alkali feldspar 92, 800, 1425
 aluminate sodalite 1375
 analcime 39
 ankerite 1141
 anorthoclase 1332
 brewsterite 1501
 Cu-Au 1021
 carbonate 1021
 chlorite 676
 clinoamphibole 1425
 cookeite 67
 cordierite 39, 349
 defernite 625
 enstatite 1321
 feldspar 1021, 1344
 garnet 1021
 gehlenite 349
 hennomartinitite 9
 illite 852

- illite-smectite 852
 $K_2MgSi_3O_{12}$ 369
 kalsilite 561
 kaolinite 26
 lawsonite 1080
 lead feldspar 1337
 lead oxychloride 1350
 leucite 39, 349, 369
 magnetite 375
 marcasite 119
 microcline 1133
 $(Ni,Mg)_2SiO_4$ olivine 1519
 nepheline 561
 olivine 1021
 omphacite 1425
 orthopyroxene 842, 1021, 1321, 1425
 perovskite 822, 1021
 potassium feldspar 1344, 1413
 potassium richterite 56
 pressure effect 1021
 pyrite 119
 pyroxenoid 822
 scapolite 169
 silicate 1021
 sillimanite 349, 1413
 spinel 375, 1021, 1413
 tetrakalsilite 561
 theoretical model 881
 tremolite 782
 Orendite 229
 Orthoclase 452
 Orthopyroxene 676, 685, 842, 1021, 1321, 1425, 1438
 Orthowalpurkite 1013
 Oscillatory zoning 982
 Oulankaite 1513
 Owensite 516
- $PbBi_4Te_2S_2$ 1282
 $PbBi_4Te_3S$ 1282
 $Pb_2Bi_2TeS_3$ 1282
 $Pb_2Bi_2Te_2S_3$ 1282
 $Pb_2Bi_3Te_2S_3$ 1282
 $Pb_2Bi_5Te_5S_2$ 1282
 $(Pd,Ag)_2(Te,Pb,Sb,Sn)$ 1013
 $(Pd,Cu)O$ 1013
 $(Pt,Au)_{0.66}Pd_{0.34}$ 1013
 $Pt_{0.84}Pd_{0.16}$ 1013
 $PtRuRh_{0.5}$ 766
 Parisite-(Ce) 249
 Parkinsonite 1350
 Pegmatite 105, 1237
 Pelitic schist 696
 Pentlandite 187
 Peraluminous melt 719
 Periclase 303
 Peridotite 79
- Perovskite 822, 1021
 Perovskite-magnetite 913
 Perthite 1133
 Phase A 317
 Phase B 317
 Phase equilibria
 alkali feldspar 719
 annite-sanidine-magnetite 475
 aragonite 611
 augite 685
 baddeleyite 485
 $CaO-CoO-SiO_2$ 963
 chlorite 676
 chondrodite 317
 clinohumite 317
 clinoptilolite- H_2O 952
 clinopyroxene 685
 clinozoisite 335
 corundum 676
 diaspore 335
 dolomite 611
 forsterite 676
 geikielite 485
 kalsilite 1360
 KMASH 202
 lawsonite 335
 magnesite 611
 NaCl 303
 orthopyroxene 676, 685
 peraluminous melt 719
 periclase 303
 perovskite 822
 phase A 317
 phase B 317
 phlogopite 202
 pigeonite 685, 1166
 pyroxene 685, 1166
 pyroxenoid 822
 rutile 485
 SiO_2 785
 spinel 676
 superhydrous B 317
 tremolite 1117
 zircon 485
 zoisite 335
- Phase transitions
 aluminatite sodalite 1375
 anorthoclase 1332
 cristobalite 1057
 feldspar 92, 1057
 hennomartinite 9
 $K_2MgSi_3O_{12}$ 369
 kalsilite 1057
 lawsonite 1080
 leucite 369, 1057
 quartz 1057
 sodalite 1057
 titanite 1527
- tridymite 550
 Phlogopite 202, 485, 913
 Phosinaite-(Ce) 1282
 Phosphoellenbergerite 385
 Pigeonite 685, 1166, 1438
 Pinatubo 982
 Pinguite 766
 Plagioclase 141, 982, 1460
 Planetary studies
 asteroid 525
 diogenite 1438
 eucrite 1438
 howardite 1438
 lunar crustal stratigraphy 1166
 Mars 525
 Moon 525, 902
 zircon 902
- Polytypism
 aluminatite sodalite 1375
 ferriphlogopite 913
 illite 852
 illite-smectite 852
 opal (microcrystalline) 1380
 phlogopite 913
- Porcelanite 1380
 Potassium barytolamprophyllite 766
 Potassium chromium priderite 766
 Potassium feldspar 141, 1344, 1413
 Potassium richterite 56
 Pradetite 1513
 Pressure-temperature reaction history 1460
 Prismatine 1513
 Protoachtarandite 516
 Pumpellyite 603
 Pyralispitic garnet 418
 Pyrite 119, 187, 261, 1036
 Pyrope 19, 418, 706
 Pyroxene 202, 525, 685, 1126, 1166, 1438, 1523
 Pyroxenoid 822
 Pyrrhotite 187
- Qandilite 485
 Quadridavyne 1003
 Quantum mechanical calculations
 aluminosilicate glasses 265
 $CaSiO_3$, perovskite 1293
 carbonate-fluorapatite 515
 fluorapatite 515
 forsterite 257, 545
 hematite 1301
 lizardite 1T 1405
 silica 265
- Quartz 158, 789, 891, 1057, 1133
 $(Rh,Cu)_3S_2$ 516
 Rh_5S_4 766

- Raman spectroscopy
 β -As₄S₄ 874
 β -Mg₂SiO₄ 585
beryl 395
diopside 811
MgSiO₃ ilmenite 1092
MgSiO₃-rich garnet 1289
majorite 1289
malayaite 595
mesolite 651
Na₂Si₂O₅ 273
realgar 874
scolecite 651
silicate melt 1531
 χ -As₄S₄ 874
zircon 902
Realgar 874
REE
androsite-(La) 735
florencite-(La) 1263
pyroxene 525, 1438
REE-bearing piemontite 735
spessartine-almandine 1195
zircon 874
REE-bearing piemontite 735
Rhyolite 135, 158, 1297
Rhyolitic glass 158, 1176, 1249
Rimkorolgit 516
Roebing Medal
acceptance of 773
presentation of 771
Rutile 202, 485, 1237
- SiO₂ 785
Sabelliite 1013
Sandstone 213
Sanidine 229, 475
Scanning probe microscopy
calcite 1
pyrite 1036
Scanning tunneling microscopy 1301
Scapolite 169
Scolecite 651
Secondary ion mass spectrometry
rhyolite 158
spessartine-almandine 1195
Serpentine 79
Serpentine-chlorite 79, 213
Serpentinite 79
Serpentinization 79
Shannonite 249
Shigaite 1282
Siderite 1141
Silica 265
Silicate 1021
Silicate melt 452, 1155, 1507,
1531
- Siliceous dolomite 485
Sillimanite 141, 349, 1413
Smrkovec 1282
Sodalite 1057
Speciation 1531
Spessartine-almandine 1195
Sphaerobismoite 1513
Sphalerite 187
Spinel 375, 485, 676, 1021, 1413
Stable isotopes 187
Stalderite 1013
Staurolite 1460
Strakhovite 249
Structure-energy calculations
albite 789
ankerite 1141
CaSiO₃ perovskite 1293
calcite 1141
diopside 811
dolomite 1141
forsterite 257, 545
garnet 429
halite 303
hematite 1301
MgO 303
magnesite 1141
NaCl 303
periclase 303
quartz 789
SiO₂ 785
siderite 1141
Studenitsite 1282
Superhydrous B 317
Sussexite 1013
Systems (chemical)
aluminosilicate glasses 265
CaO-CoO-SiO₂ 963
K₂O-MgO-Al₂O₃-SiO₂-H₂O-TiO₂-F
202
Na₂O-SiO₂-P₂O₅ 1531
Na₂Si₂O₅ 273
silica 265
Ti-Nb-U-O 1237
- Th₆B₈Si₇O₃₈ 766
Ti-Nb-U-O 1237
Tl-Sb-As sulfosalt 1282
Takedaite 516
Tetraferriphlogopite 1513
Tetrakalsilite 561
Thermal behavior
aluminite sodalite 1375
cummingtonite 928
gypsum 847
hornblende 928
lizardite-1T 1111
lunar crustal rocks 1166
- malayaite 595
perovskite 822
pyroxenoid 822
titanite 1527
wüstite 973
Thermal history 1208
Thermodynamic data
ankerite 1141
CaO-CoO-SiO₂ 963
clinoptilolite-H₂O 952
clinozoisite 335
diaspore 335
diopside 811
garnet 61, 429
halite 303
laumontite 658
lawsonite 335
leonhardite 658, 668
MgO 303
NaCl 303
periclase 303
perovskite 822
pyroxenoid 822
wairakite 658
wüstite 973
yugawaralite 658
zoisite 335
Titanite 1527
Tolman, Carl, Memorial of 779
Tonality 462
Tourmaline 1222
Trace elements
alkali feldspar 719
apatite 864
B 141
biotite 141
Cd 864
cordierite 141
garnet 61
H₂O 1523
Li 141
mantle rocks 754, 760
muscovite 141
peraluminous melt 719
plagioclase 141, 982
potassium feldspar 141
pyroxene 525, 1438
quartz 891
sanidine 229
sillimanite 141
spessartine-almandine 1195
XRF analysis 639
zircon 902
Tremolite 485, 782, 1117, 1126
Triclinic lawsonite 766
Tridymite 550, 1380
Tungstibite 766
Tungusite 516

- Unit-cell data
 albite 1133
 alkali feldspar 92
 androsite-(La) 735
 ankerite 1141
 β -As₄S₄ 874
 bechererite 244
 brewsterite 1501
 CaCoSiO₄ 963
 CaCoSi₂O₆ 963
 Ca₂CoSi₂O₇ 963
 cancrinite group 1003
 chlorite 676
 clinopyroxene 632
 clinozoisite 335
 columbite-tantalite 146
 cookeite 67
 corundum 676
 cummingtonite 363
 diaspore 335
 diopside 632
 fianelite 1270
 fluor-cannilloite 995
 fluor-ferro-leakeite 226
 forsterite 51, 676
 gypsum 847
 halite 303
 hennomartinite 9
 hyttsjöite 743
 kalsilite 561
 LiScSiO₄ 327
 laumontite 658
 laurelite 1277
 lawsonite 335
 lead feldspar 1337
 lead oxychloride 1350
 leonhardite 658, 668
 malayaite 595
 medenbachite 505
 microcline 1133
 NaCl 303
 (Ni,Mg)₂SiO₄ olivine 1519
 nanpingite 105
 nepheline 561
 olivine 327
 orthopyroxene 676
 periclae 303
 perovskite 822
 pyroxenoid 822
 quartz 1133
 realgar 874
 REE-bearing piemontite 735
 SiO₂ 785
 sanidine 229
 scapolite 169
 serpentine-chlorite 79, 213
 spinel 676
 tetrakalsilite 561
 titanite 1527
 tremolite 1117
 wairakite 658
 wüstite 973
 χ -As₄S₄ 874
 yugawaralite 658
 zoisite 335
- Unnamed minerals
 chlorite-biotite 1396
 SiO₂ 785
 serpentine-chlorite 79
- Varennesite 766
 Viancite 1013, 1282
 Viscosity 126, 1155, 1297
 Vlodayevsite 766
 Volcanic glass 1176
 Volcanic rocks 982
- Wadsleyite 585
 Wairakite 658
 Warrierte 1282
 Water solubility 452
 Wupatkiite 516
 Wüstite 973
- χ -As₄S₄ 874
 XAS
 apatite 864
 enstatite 1321
 glass 111
 orthopyroxene 1321
 perovskite 822
 pyroxenoid 822
 XPS (pyrite) 261, 1036
 XRD
 albite 1133
 androsite-(La) 735
 ankerite 1141
 aragonite 611
 β -As₄S₄ 874
 β -Mg₂SiO₄ 585
 bechererite 244
 betafite 1237
 CaCoSiO₄ 963
 CaCoSi₂O₆ 963
 Ca₂CoSi₂O₇ 963
 carbonate-fluorapatite 515
 chlorite 676
 clinozoisite 335, 341
 cookeite 67
 cristobalite 1380
 diaspore 335
 dolomite 611
 epidote 341
 fianelite 1270
 fluorapatite 515
 fluor-cannilloite 995
 fluor-ferro-leakeite 226
 hennomartinite 9
 hyttsjöite 743
 illite 852
 illite-smectite 852
 K₂MgSi₃O₁₂ 369
 kaolinite 26
 laurelite 1277
 lawsonite 335, 341
 lead feldspar 1337
 leonhardite 668
 leucite 369
 liandratite 1237
 MgSiO₃ ilmenite 45
 magnetite 375
 malayaite 595
 medenbachite 505
 mesolite 651
 microcline 1133
 (Ni,Mg)₂SiO₄ olivine 1519
 nanpingite 105
 opal (microcrystalline) 1380
 orthopyroxene 842
 perovskite 822
 perthite 1133
 pyroxenoid 822
 realgar 874
 rutile 1237
 scapolite 169
 scolecite 651
 serpentine-chlorite 213
 spinel 375
 tremolite 1117
 tridymite 1380
 χ -As₄S₄ 874
 zoisite 335, 341
- XRF
 rhyolite 158
 trace elements 639
- Yuanfuliite 249
 Yugawaralite 658
- Zdenekite 249
 Zemannite 249
 Zeolite 651
 Zinc melanterite 1513
 Zippeite 766
 Zircon 485, 902
 Zlatogorite 1013
 Zoisite 335, 341