

1998 AUTHOR INDEX

- Agnew, S.F., see Johnston et al., 75
 Ague, J.J., see Poggi et al., 1122
 Ahn, J.H. and Buseck, P.R.: Transmission electron microscopy of muscovite alteration of tourmaline, 535
 Alberti, A., see Coombs et al., 935
 Altaner, S.P., see Cuadros and Altaner, 762
 Amthauer, G. and Rossman, G.R.: The hydrous component in andradite garnet, 835
 Anderson, O.L.: Thermoelastic properties of MgSiO₃ perovskite using the Debye approach, 23
 Andraut, D., Neuville, D.R., Flank, A.-M., and Wang, Y.: Cation sites in Al-rich MgSiO₃ perovskites, 1045
 Angel, R.J., see Arlt et al., 1176
 Angel, R.J., see Knoche et al., 1168
 Angel, R.J., see Reichmann et al., 1357
 Angel, R.J., see Schmidt et al., 881
 Angel, R.J., see Woodland and Angel, 404
 Angert, E.R., Northup, D.E., Reysenbach, A.-L., Peek, A.S., Goebel, B.M., and Pace, N.R.: Molecular phylogenetic analysis of a bacterial community in Sulphur River, Parker Cave, Kentucky, 1583
 Apitz, S.E., see Kubicki and Apitz, 1054
 Aranovich, L.Y. and Newton, R.C.: Reversed determination of the reaction: Phlogopite + quartz = enstatite + potassium feldspar + H₂O in the ranges 750–875 °C and 2–12 kbar at low H₂O activity with concentrated KCl solution, 193
 Arlt, T., Angel, R.J., Miletich, R., Armbruster, T., and Peters, T.: High-pressure *P2₁/c-C2/c* phase transitions in clinopyroxenes: Influence of cation size and electronic structure, 1176
 Arlt, T., Armbruster, T., Ulmer, P., and Peters, T.: MnSi₂O₅ with the titanite structure: A new high-pressure phase in the MnO-SiO₂ binary, 657
 Armbruster, T., see Arlt et al., 657
 Armbruster, T., see Arlt et al., 1176
 Armbruster, T., see Coombs et al., 935
 Armbruster, T., see Nyfeler and Armbruster, 119
 Artioli, G., see Coombs et al., 935
 Artioli, G., see Gualtieri et al., 590
 Artioli, G., see Passaglia et al., 577
 Asimow, P.D. and Ghiorso, M.S.: Algorithmic modifications extending MELTS to calculate subsolidus phase relations, 1127
 Bai, T.B. and Koster van Groos, A.F.: Phase relations in the system MgO-NaCl-H₂O: The dehydroxylation of brucite in the presence of NaCl-H₂O fluids, 205
 Bailey, E.H., see Haas et al., 1494
 Bancroft, G.M., see Legrand et al., 1256
 Bancroft, G.M., see Maddox et al., 1240
 Bancroft, G.M., see Nesbitt et al., 1067
 Bancroft, G.M., see Scaini et al., 316
 Banerjee, D., see Nesbitt and Banerjee, 305
 Banfield, J.F.: Acceptance of the Mineralogical Society of America Award for 1997, 917
 Banfield, J.F. and Murakami, T.: Atomic-resolution transmission electron microscope evidence for the mechanism by which chlorite weathers to 1:1 semi-regular chlorite-vermiculite, 348
 Banfield, J.F., see Barker et al., 1551
 Banfield, J.F., see Edwards et al., 1444
 Banfield, J.F., see Janney and Banfield, 799
 Banfield, J.F., see Kogure and Banfield, 925
 Banfield, J.F., see Penn and Banfield, 1077
 Banno, S., see Radvenac et al., 273
 Barker, W.W., Welch, S.A., Chu, A., and Banfield, J.F.: Experimental observations of the effects of bacteria on aluminosilicate weathering, 1551
 Barkov, A.Y., Laajoki, K.V.O., Gornostayev, S.S., Pakhomovskii, Y.A., and Men'shikov, Y.P.: Sorosite, Cu (Sn,Sb), a new mineral from the Baimka placer deposit, western Chukotka, Russian Far East, 901
 Barnes, H.L., see Wilkin and Barnes, 746
 Baron, V., Gutzmer, J., Rundlöf, H., and Teggren, R.: The influence of iron substitution on the magnetic properties of hausmannite, Mn²⁺(Fe,Mn)^{2/3}O₄, 786
 Bassett, W.A., see Reichmann et al., 1357
 Bassett, W.A., see Schmidt et al., 995
 Bayliss, P., see Smith et al., 126
 Bazylinski, D.A., see 1387 et al., 1387
 Bazylinski, D.A., see Pósfai et al., 1469
 Bebie, J., see Guevremont et al., 1353
 Bebout, B.M., see Visscher et al., 1482
 Benna, P., see Tribaudino et al., 159
 Bennett, P.C., see Rogers et al., 1532
 Berger, B.R.: *Magmas, Fluids, and Ore Deposits*. Edited by J.F.H. Thompson, 190
 Berman, R.G., see Chernosky et al., 726
 Bernhard, F., Walter, F., Ettinger, K., Taucher, J., and Mereiter, K.: Pretulite, ScPO₄, a new scandium mineral from the Styrian and Lower Austrian lazulite occurrences, Austria, 625
 Bernhardt, H.-J., see Effenberger et al., 607
 Berry, S.L., see Hofmeister et al., 1293
 Bertka, C.M., see Mysen et al., 942
 Bigi, S., see Gualtieri et al., 590
 Birch, W.D., Pring, A., McBriar, E.M., Gatehouse, B.M., and McCammon, C.A.: Bamfordite, Fe³⁺Mo₂O₆(OH)₃•H₂O, a new hydrated iron molybdenum oxyhydroxide from Queensland, Australia: Description and crystal chemistry, 172
 Bish, D.L., see Johnston et al., 75
 Bismayer, U., see Chrosch et al., 1083
 Blake, R.E., O'Neil, J.R., and Garcia, G.A.: Effects of microbial activity on the δ¹⁸O of dissolved inorganic phosphate and textural features of synthetic apatites, 1516
 Bodnar, R.J., see Schmidt et al., 995
 Boffa Ballaran, T., Carpenter, M.A., Domeneghetti, M.C., and Tazzoli, V.: Structural mechanisms of solid solution and cation ordering in augite-jadeite pyroxenes: I. A macroscopic perspective, 419
 Boffa Ballaran, T., Carpenter, M.A., Domeneghetti, M.C., Salje, E.K.H., and Tazzoli, V.: Structural mechanisms of solid solution and cation ordering in augite-jadeite pyroxenes: II. A microscopic perspective, 434
 Bohlen, S.R., see Hemmingway et al., 409
 Böhm, H., see Kahlenberg and Böhm, 631
 Boldish, S.I. and White, W.B.: Optical band gaps of selected ternary sulfide minerals, 865
 Bosenick, A., see Hammonds et al., 476

- Bouska, V., Císarová, I., Skála, R., Dvorák, Z., Zelinka, J., and Zák, J.: Hartite from Bílina, 1340
- Brett, R., see Nasdala et al., 1111
- Brigatti, M.F., Frigieri, P., and Poppi, L.: Crystal chemistry of Mg-, Fe-bearing muscovites-2M₁, 775
- Brodholt, J.P., see Dobson et al., 794
- Brodholt, J.P., see Richmond and Brodholt, 947
- Brooker, R., Holloway, J.R., and Hervig, R.: Reduction in piston-cylinder experiments: The detection of carbon infiltration into platinum capsules, 985
- Broska, I., see Finger et al., 248
- Brouwers, G.J., de Vrind, J.P.M., Corstjens, P.L.A.M., and de Vrind-de Jong, E.W.: Involvement of genes of the two-step protein secretion pathway in the transport of the manganese-oxidizing factor across the outer membrane of *Pseudomonas putida* strain GB-I, 1573
- Brown, D.A., Sawicki, J.A., and Sherriff, B.L.: Alteration of microbially precipitated iron oxides and hydroxides, 1419
- Brown, G.E. Jr., see Foster et al., 553
- Brugger, J., Gieré, R., Grobéty, B., and Uspensky, E.: Scheelite-powellite and paraniite-(Y) from the Fe-Mn deposit at Fianel, Eastern Swiss Alps, 1100
- Bruno, E., see Tribaudino et al., 159
- Buckley, A., see Salje et al., 811
- Buseck, P.R., see Ahn and Buseck, 535
- Buseck, P.R., see Devouard et al., 1387
- Buseck, P.R., see Pósfai and Buseck, 373
- Buseck, P.R., see Pósfai et al., 1469
- Buseck, P.R., see Xu et al., 542
- Caballero, J.M., Monge, A., La Iglesia, A., and Tornos, F.: Ferri-clinoholmquistite, Li₂(Fe²⁺,Mg)₃Fe³⁺₂Si₈O₂₂(OH)₂, a new ⁶Li clin amphibole from the Pedriza Massif, Sierra de Guadarrama, Spanish Central System, 167
- Caballero, J.M., Monge, A., La Iglesia, A., and Tornos, F.: Erratum: Ferri-clinoholmquistite, Li₂(Fe²⁺,Mg)₃Fe³⁺₂Si₈O₂₂(OH)₂, a new ⁶Li clin amphibole from the Pedriza Massif, Sierra de Guadarrama, Spanish Central System, 668
- Caberet, D., Sainctavit, P., Ildefonse, P., and Flank, A.-M.: Full multiple scattering calculations of the X-ray absorption near edge structure at the magnesium K-edge in pyroxene, 300
- Campbell, K.R., see Hofmeister et al., 1293
- Capobianco, C.J.: Ruthenium solubility in hematite, 1152
- Carey, J.W.: *Chemical Fundamentals of Geology, second edition*. By Robin Gill 1138
- Carlson, E.H., see Lower et al., 147
- Carmichael, I.: Acceptance of the Roebling Medal of the Mineralogical Society of America for 1997, 914
- Carmichael, I.S.E., see Moore et al., 36
- Carpenter, M.A., Salje, E.K.H., Graeme-Barber, A., Wruck, B., Dove, M.T., and Knight, K.S.: Calibration of excess thermodynamic properties and elastic constant variations associated with the α ↔ β phase transition in quartz, 2
- Carpenter, M.A., see Boffa Ballaran et al., 419
- Carpenter, M.A., see Boffa Ballaran et al., 434
- Carter, D., see Poggi et al., 1122
- Casey, W.H., see Mercy et al., 739
- Cavazzini, G., see Rieder et al., 1366
- Cerny, R., see Sarp and Cerny, 383
- Cerny, P., see Selway et al., 896
- Cerny, P., see Teertstra et al., 1335
- Chakraborty, S., see Dohmen et al., 970
- Chakraborty, S., see Meissner et al., 546
- Chaplin, T., Price, G.D., and Ross, N.L.: Computer simulation of the infrared and Raman activity of pyrope garnet, and assignment of calculated modes to specific atomic motions, 841
- Chaplot, S.L., Choudhury, N., and Rao, K.R.: Molecular dynamics simulation of phase transitions and melting in MgSiO₃ with the perovskite structure, 937
- Cherniak, D.J., see Moore et al., 700
- Chernosky, J.V. Jr., Berman, R.G., and Jenkins, D.M.: The stability of tremolite: New experimental data and a thermodynamic assessment, 726
- Chinner, G.: Memorial of Stuart Olof Agrell, 1913–1996, 666
- Chinnery, N.J., see Pawley et al., 1030
- Choi, W.J., see Rogers et al., 1532
- Chou, I.-M., see Schmidt et al., 995
- Choudhury, N., see Chaplot et al., 937
- Chrosch, J., Colombo, M., Malcherek, T., Salje, E.K.H., Groat, L.A., and Bis-mayer, U.: Thermal annealing of radiation damaged titanite, 1083
- Chu, A., see Barker et al., 1551
- Císarová, I., see Bouska et al., 1340
- Clark, S.M., see Pawley et al., 1030
- Cohen, N.S., see Dobson et al., 794
- Cohen, R., see Mazin et al., 451
- Colella, C., see Coombs et al., 935
- Colombo, M., see Chrosch et al., 1083
- Coombs, D.S., Alberti, A., Armbruster, T., Artioli, G., Colella, C., Galli, E., Grice, J.D., Liebau, F., Mandarino, J.A., Minato, H., Nickel, E.H., Passaglia, E., Peacor, D.R., Quartieri, S., Rinaldi, R., Ross, M., Sheppard, R.A., Tillmanns, E., and Vezzalini, G.: Special Notice: Web Paper. Recommended nomenclature for zeolite minerals: Report of the subcommittee on zeolites of the International Mineralogical Association, Commission on New Minerals and Mineral Names, 935
- Cooper, M.A., Hawthorne, F.C., Roberts, A.C., Grice, J.D., Stirling, J.A.R., and Moffatt, E.A.: Georgeericksenite, Na₆CaMg(IO₃)₆(CrO₄)₂(H₂O)₁₂, a new mineral from Oficina Chacabuco, Chile: Description and crystal structure, 390
- Corstjens, P.L.A.M., see Brouwers et al., 1573
- Criddle, A.J., see Grey et al., 1323
- Cuadros, J. and Altaner, S.P.: Characterization of mixed-layer illite-smectite from bentonites using microscopic, chemical, and X-ray methods: Constraints on the smectite-to-illite transformation mechanism, 762
- Davis, M.J. and Ihinger, P.D.: Heterogeneous crystal nucleation on bubbles in silicate melt, 1008
- Delaney, J.S., see Dyar et al., 1361
- Devouard, B., Pósfai, M., Hua, X., Bazylinski, D.A., Frankel, R.B., and Buseck, P.R.: Magnetite from magnetotactic bacteria: Size distributions and twinning, 1387
- de Vrind, J.P.M., see Brouwers et al., 1573
- de Vrind-de Jong, E.W., see Brouwers et al., 1573
- Dingwell, D.B. and Hess, K.-U.: Melt viscosities in the system Na-Fe-Si-O-F-Cl: Contrasting effects of F and Cl in alkaline melts, 1016
- Dingwell, D.B., Hess, K.-U., and Romano, C.: Viscosity data for hydrous peraluminous granitic melts: Comparison with a metaluminous model, 236
- Dingwell, D.B., see Mungall et al., 685
- Dinnebier, R.E., see Schmidt et al., 881
- Dobson, D.P., Cohen, N.S., Pankhurst, Q.A., and Brodholt, J.P.: A convenient method for measuring ferric iron in magnesiowüstite (MgO-Fe_{1-x}O), 794
- Dohmen, R., Chakraborty, S., Palme, H., and Rammensee, W.: Solid-solid reactions mediated by a gas phase: An ex-

- perimental study of reaction progress and the role of surfaces in the system olivine+iron metal, 970
- Domeneghetti, M.C., see Boffa Ballaran et al., 419
- Domeneghetti, M.C., see Boffa Ballaran et al., 434
- Dove, M.T., see Carpenter et al., 2
- Dove, M.T., see Hammonds et al., 476
- Downs, R., see Mazin et al., 451
- Drits, V.A., Lanson, B., Gorshkov, A.I., and Manceau, A.: Substructure and superstructure of four-layer Ca-exchanged birnessite, 97
- Drits, V.A., Lindgreen, H., Salyn, A.L., Ylagan, R., and McCarty, D.K.: Semi-quantitative determination of trans-vacant and cis-vacant 2:1 layers in illites and illite-smectites by thermal analysis and X-ray diffraction, 1188
- Dvorák, Z., see Bouska et al., 1340
- D'Yakonov, Y.S., see Rieder et al., 1366
- Dyar, M.D., Delaney, J.S., Sutton, S.R., and Schaefer, M.W.: Fe³⁺ distribution in oxidized olivine: A synchrotron micro-XANES study, 1361
- Dyar, M.D., Taylor, M.E., Lutz, T.M., Francis, C.A., Guidotti, C.V., and Wise, M.: Inclusive chemical characterization of tourmaline: Mössbauer study of Fe valence and site occupancy, 848
- Dymek, R.F. and Hofmeister, A.M.: *American Mineralogist* in Transition, 1
- Eberl, D.D., see Sucha et al., 58
- Edwards, K.J., Schrenk, M.O., Hamers, R., and Banfield, J.F.: Microbial oxidation of pyrite: Experiments using microorganisms from an extreme acidic environment, 1444
- Effenberger, H., Giester, G., Krause, W., and Bernhardt, H.-J.: Tschörtnerite, a copper-bearing zeolite from the Bellberg volcano, Eifel, Germany, 607
- Elsass, F., see Sucha et al., 58
- Elsetinow, A.R., see Guevremont et al., 1353
- Enami, M., see Nagasaki and Enami, 240
- Endo, K., see Sarashina and Endo, 1510
- Ernst, W.G. and Liu, J.: Experimental phase-equilibrium study of Al- and Ti-contents of calcic amphibole in MORB—A semiquantitative thermometer, 952
- Ernst, W.G., see Radvenac et al., 273
- Ettinger, K., see Bernhard et al., 625
- Evans, B.W. and Yang, H.: Fe-Mg order-disorder in tremolite-actinolite-ferroactinolite at ambient and high temperature, 458
- Evans, H.T. Jr., see Medrano et al., 889
- Ewing, R.C., see Teertstra et al., 1335
- Fagan, T.J., see Hofmeister et al., 1293
- Farges, F.: Mineralogy of the Louvres Merovingian garnet cloisonné jewelry: Origins of the gems of the first kings of France, 323
- Farmer, G.L.: *Chemical Fundamentals of Geology, second edition*. By Robin Gill 1139
- Fei, Y., see Mazin et al., 451
- Ferris, F.G., see Fortin et al., 1399
- Finger, F., Broska, I., Roberts, M.P., and Schermaier, A.: Replacement of primary monazite by apatite-allanite-epidote coronas in an amphibolite facies granite gneiss from the eastern Alps, 248
- Finger, L.W., see Schmidt et al., 881
- Finger, L.W., see Yang et al., 288
- Fiske, P.S., Nellis, W.J., Xu, Z., and Stebbins, J.F.: Shocked quartz: A ²⁹Si magic-angle spinning nuclear magnetic resonance study, 1285
- Flank, A.-M., see Andrault et al., 1045
- Flank, A.-M., see Cabaret et al., 300
- Fleet, M.E.: Sodium heptasilicate: A high-pressure silicate with six-membered rings of tetrahedra interconnected by SiO₆ octahedra: (Na₈Si[Si₆O₁₈]), 618
- Flesch, L.M., Li, B., and Liebermann, R.C.: Sound velocities of polycrystalline MgSiO₃-orthopyroxene to 10 GPa at room temperature, 444
- Fliervoet, T.F., see Knoche et al., 1168
- Fockenberg, T.: An experimental study of the pressure-temperature stability of MgMgAl-pumpellyite in the system MgO-Al₂O₃-SiO₂-H₂O, 220
- Förster, H.-J.: The chemical composition of REE-Y-Th-U-rich accessory minerals in peraluminous granites of the Erzgebirge-Fichtelgebirge region, Germany, Part I: The monazite-(Ce)-brabantite solid solution series, 259
- Förster, H.-J.: The chemical composition of REE-Y-Th-U rich accessory minerals in peraluminous granites of the Erzgebirge-Fichtelgebirge region, Germany. Part II: Xenotime, 1302
- Fortin, D., Ferris, F.G., and Scott, S.C.: Formation of Fe-silicates and Fe-oxides on bacterial surfaces in samples collected near hydrothermal vents on the Southern Explorer Ridge in the northeast Pacific Ocean, 1399
- Foster, A.L., Brown, G.E. Jr., Tingle, T.N., and Parks, G.A.: Quantitative arsenic speciation in mine tailings using X-ray absorption spectroscopy, 553
- Francis, C.A., see Dyer et al., 848
- Frank-Kamenetskii, V.A., see Rieder et al., 1366
- Frankel, R.B., see Devouard et al., 1387
- Frankel, R.B., see Pósfai et al., 1469
- Fredrickson, J.K., see Zachara et al., 1426
- Frigieri, P., see Brigatti et al., 775
- Frost, R.L., Klopogge, J.L., Thu Han Thi Tran, and Kristof, J.: The effect of pressure on the intercalation of an ordered kaolinite, 1182
- Fuchs, Y., Lagache, M., and Linares, J.: Fe-tourmaline synthesis under different *T* and *f*_{o₂} conditions, 525
- Galli, E., see Coombs et al., 935
- Garcia, G.A., see Blake et al., 1516
- Gassman, P.L., see Zachara et al., 1426
- Gatehouse, B.M., see Birch et al., 172
- Gates, W.P., see Sucha et al., 58
- George, A.M., Richet, P., and Stebbins, J.F.: Cation dynamics and premelting in lithium metasilicate (Li₂SiO₃) and sodium metasilicate (Na₂SiO₃): A high-temperature NMR study, 1277
- George, A.M. and Stebbins, J.F.: Structure and dynamics of magnesium in silicate melts: A high-temperature ²⁵Mg NMR study, 1022
- Gessmann, C.K., Spiering, B., and Raith, M.: Erratum: Experimental study of the Fe-Mg exchange between garnet and biotite: Constraints on the mixing behavior and analysis of the cation-exchange mechanisms, 936
- Ghiorso, M.S., see Asimow and Ghiorso, 1127
- Gieré, R., see Brugger et al., 1100
- Giester, G., see Effenberger et al., 607
- Giester, G., Ni, Y., Jarosch, D., Hughes, J.M., Rønso, J., Yang, Z., and Zemann, J.: Cordylite-(Ce): A crystal chemical investigation of material from four localities, including type material, 178
- Goebel, B.M., see Angert et al., 1583
- Gornostayev, S.S., see Barkov et al., 901
- Gorshkov, A.I., see Drits et al., 97
- Gottardi, G., see Rieder et al., 1366
- Graeme-Barber, A., see Carpenter et al., 2
- Graetsch, H.: Characterization of the high-temperature modifications of incommensurate tridymite L3-T₀(MX-1) from 25 to 250 °C, 872
- Grew, E.S., McGee, J.J., Yates, M.G., Peacor, D.R., Rouse, R.C., Huijsmans,

- J.P.P., Shearer, C.K., Wiedenbeck, M., Thost, D.E., and Su, S.-C.: Borasilite ($\text{Al}_{16}\text{B}_6\text{Si}_{20}\text{O}_{37}$): A new mineral related to sillimanite from pegmatites in granulite-facies rocks, 638
- Grew, E.S., see Jambor et al., 185
- Grew, E.S., see Jambor et al., 1347
- Grey, I.E., Velde, D., and Criddle, A.J.: Haggertyite, a new magnetoplumbite-type titanate mineral from the Prairie Creek (Arkansas) lamproite, 1323
- Grguric, B.A., Putnis, A., and Harrison, R.J.: An investigation of the phase transitions in bornite (Cu_5FeS_4) using neutron diffraction and differential scanning calorimetry, 1231
- Grice, J.D., see Coombs et al., 935
- Grice, J.D., see Cooper et al., 390
- Groat, L.A., see Chrosch et al., 1083
- Grobóty, B., see Brugger et al., 1100
- Grzechnik, A. and McMillan, P.F.: Temperature dependence of the OH⁻ absorption in the SiO_2 glass and melt to 1975 K, 331
- Gualtieri, A., Artioli, G., Passaglia, E., Bigi, S., Viani, A., and Hanson, J.C.: Crystal structure-crystal chemistry relationships in the zeolites erionite and offretite, 590
- Gualtieri, A., see Passaglia et al., 577
- Gudfinnsson, G.H. and Wood, B.J.: The effect of trace elements on the olivine-wadsleyite transformation, 1037
- Guevremont, J.M., Elsetinow, A.R., Strongin, D.R., Bebie, J., and Schoonen, M.A.A.: Structure sensitivity of pyrite oxidation: Comparison of the (100) and (111) planes, 1353
- Guevremont, J.M., Strongin, D.R., and Schoonen, M.A.A.: Thermal chemistry of H_2S and H_2O on the (100) plane of pyrite: Unique reactivity of defect sites, 1246
- Guggenheim, S., see Rieder et al., 1366
- Guidotti, C.V., see Dyer et al., 848
- Gutzmer, J., see Baron et al., 786
- Guyot, F., see Zhang et al., 280
- Haas, J.R., Bailey, E.H., and Purvis, O.W.: Bioaccumulation of metals by lichens: Uptake of aqueous uranium by *Peltigera membranacea* as a function of time and pH, 1494
- Hall, A.: *Igneous Petrology, second edition*. By Calvin F. Miller 190
- Hamers, R., see Edwards et al., 1444
- Hammer, V.M.F., Libowitzky, E., and Rossman, G.R.: Single-crystal IR spectroscopy of very strong hydrogen bonds in pectolite, $\text{NaCa}_2[\text{Si}_3\text{O}_8(\text{OH})]$, and serandite, $\text{NaMn}_2[\text{Si}_3\text{O}_8(\text{OH})]$, 569
- Hammonds, K.D., Bosenick, A., Dove, M.T., and Heine, V.: Rigid unit modes in crystal structures with octahedrally coordinated atoms, 476
- Hankins, W.B., see Hemmingway et al., 409
- Hanson, B. and Jones, J.H.: The systematics of Cr^{3+} and Cr^{2+} partitioning between olivine and liquid in the presence of spinel, 669
- Hanson, J.C., see Gualtieri et al., 590
- Harrison, R.J., Redfern, S.A.T., and O'Neill, H.St.C.: The temperature dependence of the cation distribution in synthetic hercynite (FeAl_2O_4) from in situ neutron structure refinements, 1092
- Harrison, R.J., see Grguric et al., 1231
- Hawthorne, F.C., see Cooper et al., 390
- Hawthorne, F.C., see Selway et al., 896
- Hawthorne, F.C., see Teertstra et al., 1335
- Hazen, R.M., see Yang et al., 288
- Heine, V., see Hammonds et al., 476
- Helsen, J., see Johnston et al., 75
- Hemingway, B.S., Bohlen, S.R., Hankins, W.B., Westrum, E.F. Jr., and Kuskov, O.L.: Heat capacity and thermodynamic properties for coesite and jadeite, reexamination of the quartz-coesite equilibrium boundary, 409
- Hemley, R.J., see Yang et al., 288
- Hervig, R., see Brooker et al., 985
- Herzberg, C., and Zhang, J.: Melting experiments in the systems $\text{CaO-MgO-Al}_2\text{O}_3\text{-SiO}_2$ and MgO-SiO_2 at 3 to 15 GPa, 491
- Hess, K.-U., see Dingwell et al., 236
- Hess, K.-U., see Dingwell and Hess, 1016
- Hildmann, B., see Rehak et al., 1266
- Hoeft, S.H., see Visscher et al., 1482
- Hofmeister, A.M., Schaal, R.B., Campbell, K.R., Berry, S.L., and Fagan, T.J.: Prevalence and origin of birefringence in 48 garnets from the pyrope-almandine-grossularite-spessartine quaternary, 1293
- Hofmeister, A.M., see Dymek and Hofmeister, 1
- Holloway, J.R., see Brooker et al., 985
- Hoshi, T. and Tagai, T.: Erratum: Interpretation on microtextures of potassium-calcium feldspar inclusions in a Bøggild plagioclase, 1368
- Hovis, G.L., Roux, J., and Richet, P.: A new era in hydrofluoric acid solution calorimetry: Reduction of required sample size below 10 milligrams, 931
- Hua, X., see Devouard et al., 1387
- Hughes, J.M., see Giester et al., 178
- Huijsmans, J.P.P., see Grew et al., 638
- Ihinger, P.D., see Davis and Ihinger, 1008
- Idefonse, P., see Cabaret et al., 300
- Ishibashi, Y., see Salje et al., 811
- Jäger, C., see Rehak et al., 1266
- Jambor, J.L. and Roberts, A.C.: New Mineral Names, 400
- Jambor, J.L., Grew, E.S., and Roberts, A.C.: New Mineral Names, 185
- Jambor, J.L., Grew, E.S., and Roberts, A.S.: New Mineral Names, 1347
- Jambor, J.L., Kovalenker, V.A., and Roberts, A.C.: New Mineral Names, 1117
- Jambor, J.L., Pertsev, N.N., and Roberts, A.C.: New Mineral Names, 907
- Jambor, J.L., Puziewicz, J., and Roberts, A.C.: New Mineral Names, 652
- Janney, D.E. and Banfield, J.F.: Distribution of cations and vacancies and the structure of defects in oxidized intermediate olivine by atomic-resolution TEM and image simulation, 799
- Jarosch, D., see Giester et al., 178
- Jenkins, D.M., see Chernosky et al., 726
- Johnston, A.D., see Pickering et al., 228
- Johnston, C.: *Scanning Probe Microscopy of Clay Minerals*. Edited by K.L. Nagy and A.E. Blum, 190
- Johnston, C.T., Helsen, J., Schoonheydt, R.A., Bish, D.L., and Agnew, S.F.: Single-crystal Raman spectroscopic study of dickite, 75
- Jones, J.H., see Hanson and Jones, 669
- Kadohara, H., see Murakami et al., 1209
- Kahlenberg, V. and Böhm, H.: Crystal structure of hexagonal trinepheline—A new synthetic NaAlSiO_4 modification, 631
- Kampf, A.R.: *Gemstones of North America, volume III*. By John Sinkankas 1139
- Kennedy, D.W., see Zachara et al., 1426
- Keppeler, H., see Nowak and Keppeler, 43
- Keppeler, H., see Zotov and Keppeler, 823
- Kim, Y. and Kirkpatrick, R.J.: High-temperature multi-nuclear NMR investigation of analcime, 339
- Kim, Y. and Kirkpatrick, R.J.: NMR T_1 relaxation study of ^{133}Cs and ^{23}Na adsorbed on illite, 661
- Kirkpatrick, R.J., see Kim and Kirkpatrick, 339
- Kirkpatrick, R.J., see Kim and Kirkpatrick, 661
- Kitakaze, A., see Sugaki and Kitakaze, 133

- Klinowski, J., see Welch et al., 85
 Kloprogge, J.L., see Frost et al., 1182
 Knight, K.S., see Carpenter et al., 2
 Knipe, S.W., see Scaini et al., 316
 Knoche, K., Angel, R.J., Seifert, F., and Fliervoet, T.F.: Complete substitution of Si for Ti in titanite $\text{Ca}(\text{Ti}_{1-x}\text{S}_x)\text{V}^{\text{IV}}\text{Si}^{\text{IV}}\text{O}_5$, 1168
 Kogure, T. and Banfield, J.F.: Direct identification of the six polytypes of chlorite characterized by semi-random stacking, 925
 Kogure, T. and Murakami, T.: Structure and formation mechanism of low-angle grain boundaries in chlorite, 358
 Kogure, T., see Murakami et al., 1209
 Kohn, M.J., Riciputi, L.R., Stakes, D., and Orange, D.L.: Sulfur isotope variability in biogenic pyrite: Reflections of heterogeneous bacterial colonization?, 1454
 Komadel, P., see Sucha et al., 58
 Korenowski, G.M., see Winther et al., 1141
 Koster van Groos, A.F., see Bai and Koster van Groos, 205
 Koval, P.V., see Rieder et al., 1366
 Kovalenker, V.A., see Jambor et al., 1117
 Koziol, A.M. and Newton, R.C.: Experimental determination of the reaction: Magnesite + enstatite = forsterite + CO_2 in the ranges 6–25 kbar and 700–1100 °C, 213
 Krause, W., see Effenberger et al., 607
 Kristof, J., see Frost et al., 1182
 Kubicki, J.D. and Aplitz, S.E.: Molecular cluster models of aluminum oxide and aluminum hydroxide surfaces, 1054
 Kuchta, L., see Sucha et al., 58
 Kunath-Fandrei, G., see Rehak et al., 1266
 Kuskov, O.L., see Hemmingway et al., 409
 Kyser, T.K., see Selway et al., 896
 Laajoki, K.V.O., see Barkov et al., 901
 Lagache, M., see Fuchs et al., 525
 La Iglesia, A., see Caballero et al., 167
 La Iglesia, A., see Caballero et al., 668
 Lange, R.: Presentation of the Roebling Medal of the Mineralogical Society of America for 1997 to Ian Carmichael, 912
 Lanson, B., see Drits et al., 97
 Larsen, I., Little, B., Neelson, K.H., Ray, R., Stone, A., and Tian, J.: Manganite reduction by *Shewanella putrefaciens* MR-4, 1563
 Lasaga, A.C., see Lüttge et al., 501
 Legrand, D.L., Nesbitt, H.W., and Bancroft, G.M.: X-ray photoelectron spectroscopic study of a pristine millerite (NiS) surface and the effect of air and water oxidation, 1256
 Li, S.-M., see Zachara et al., 1426
 Li, B., see Flesch et al., 444
 Li, Z., see Shinno and Li, 1316
 Liebau, F., see Coombs et al., 935
 Liebau, F., see Smith et al., 126
 Lieberman, R.C., see Flesch et al., 444
 Libowitzky, E., see Hammer et al., 569
 Linares, J., see Fuchs et al., 525
 Lindgreen, H., see Drits et al., 1188
 Lindsley, D.H., see Xirouchakis and Lindsley, 712
 Little, B., see Larsen et al., 1563
 Liu, J., see Ernst and Liu, 952
 Liu, S., see Welch et al., 85
 Liu, S.V., see Zhang et al., 1409
 Lorimer, J.W., see Maddox et al., 1240
 Losso, P., see Rehak et al., 1266
 Lower, S.K., Maurice, P.A., Traina, S.J., and Carlson, E.H.: Aqueous Pb sorption by hydroxylapatite: Applications of atomic force microscopy to dissolution, nucleation, and growth studies, 147
 Lu, R., see Yang et al., 288
 Luo, G., see Xu et al., 542
 Lüttge, A., Neumann, U., and Lasaga, A.C.: The influence of heating rate on the kinetics of mineral reactions: An experimental study and computer models, 501
 Lutz, T.M., see Dyer et al., 848
 MacIntyre, I.G., see Visscher et al., 1482
 Maddox, L.M., Bancroft, G.M., Scaini, M.J., and Lorimer, J.W.: Invisible gold: Comparison of Au deposition on pyrite and arsenopyrite, 1240
 Madejová, J., see Sucha et al., 58
 Malcherek, T., see Chrosch et al., 1083
 Manceau, A., see Drits et al., 97
 Mandarino, J. A., see Coombs et al., 935
 Martinez, I, see Zhang et al., 280
 Mathez, E.A. and Mogk, D.M.: Characterization of carbon compounds on a pyroxene surface from a gabbro xenolith in basalt by time-of-flight secondary ion mass spectrometry, 918
 Maurice, P.A., see Lower et al., 147
 Mazin, I.I., Fei, Y., Downs, R., and Cohen, R.: Possible polytypism in FeO at high pressures, 451
 McBriar, E.M., see Birch et al., 172
 McCammon, C.A., see Birch et al., 172
 McCarty, D.K., see Drits et al., 1188
 McGee, J.J., see Grew et al., 638
 McMillan, P.F., see Grzechnik and McMillan, 331
 Medrano, M.D., Evans, H.T. Jr., Wenk, H.-R., and Piper, D.Z.: Phosphovanadylite: A new vanadium phosphate mineral with a zeolite-type structure, 889
 Meissner, E., Sharp, T.G., and Chakraborty, S.: Quantitative measurement of short compositional profiles using analytical transmission electron microscopy, 546
 Men'shikov, Y.P., see Barkov et al., 901
 Mercy, M.A., Rock, P.A., Casey, W.H., and Mokarram, M.M.: Gibbs energies of formation for hydrocerussite $[\text{Pb}(\text{OH})_2 \cdot (\text{PbCO}_3)_2(\text{s})]$ and hydrozincite $\{[\text{Zn}(\text{OH})_2]_3 \cdot (\text{ZnCO}_3)_2(\text{s})\}$ at 298 K and 1 bar from electrochemical cell measurements, 739
 Mereiter, K., see Bernhard et al., 625
 Miletich, R., see Arlt et al., 1176
 Miller, C.F.: *Igneous Petrology*, 2nd Edition. By Anthony Hall, 190
 Minato, H., see Coombs et al., 935
 Moffatt, E.A., see Cooper et al., 390
 Mogk, D.M., see Mathez and Mogk, 918
 Mokarram, M.M., see Mercy et al., 739
 Monge, A., see Caballero et al., 167
 Monge, A., see Caballero et al., 668
 Moore, D.K., Cherniak, D.J., and Watson, E.B.: Oxygen diffusion in rutile from 750 to 1000 °C and 0.1 to 1000 MPa, 700
 Moore, G., Vennemann, T., and Carmichael, I.S.E.: An empirical model for the solubility of H_2O in magmas to 3 kilobars, 36
 Mukhamet-Galeev, A., see Zotov et al., 516
 Müller, G., see Rieder et al., 1366
 Mungall, J.E., Romano, C., and Dingwell, D.B.: Multicomponent diffusion in the molten system $\text{K}_2\text{O}-\text{Na}_2\text{O}-\text{Al}_2\text{O}_3-\text{SiO}_2-\text{H}_2\text{O}$, 685
 Murakami, T., Kogure, T., Kadohara, H., and Ohnuki, T.: Formation of secondary minerals and its effect on anorthite dissolution, 1209
 Murakami, T., see Banfield and Murakami, 348
 Murakami, T., see Kogure and Murakami, 358
 Mysen, B.O., Virgo, D., Popp, R.K., and Bertka, C.M.: The role of H_2O in Martian magmatic systems, 942
 Nagasaki, A. and Enami, M.: Sr-bearing zoisite and epidote in ultra-high pressure (UHP) metamorphic rocks from the Su-Lu province, eastern China: An important Sr reservoir under UHP conditions, 240
 Nagy, K.L. and Blum, A.E.: *Scanning Probe Microscopy of Clay Materials*.

- By Cliff Johnston 190
- Nasdala, L., Witzke, T., Ullrich, B., and Brett, R.: Gordaite $[Zn_4Na(OH)_6(SO_4)Cl \cdot 6H_2O]$: Second occurrence in the Juan de Fuca Ridge, and new data, 1111
- Nealson, K.H., see Larsen et al., 1563
- Neiva, A.M.R., see Rieder et al., 1366
- Nellis, W.J., see Fiske et al., 1285
- Nesbitt, H.W. and Banerjee, D.: Interpretation of XPS Mn(2p) spectra of Mn oxyhydroxides and constraints on the mechanism of MnO_2 precipitation, 305
- Nesbitt, H.W., Bancroft, G.M., Pratt, A.R., and Scaini, M.J.: Sulfur and iron surface states on fractured pyrite surfaces, 1067
- Nesbitt, H.W., see Legrand et al., 1256
- Neumann, U., see Lüttge et al., 501
- Neuville, D.R., see Andraut et al., 1045
- Nevins, D. and Spera, F.J.: Molecular dynamics simulations of molten $CaAl_2Si_2O_8$: Dependence of structure and properties on pressure, 1220
- Newton, R.C., see Aranovich and Newton, 193
- Newton, R.C., see Koziol and Newton, 213
- Ni, Y., see Giester et al., 178
- Nickel, E.H., see Coombs et al., 935
- Nord, G.L. Jr., see Salje et al., 811
- Northup, D.E., see Angert et al., 1583
- Novák, M., see Selway et al., 896
- Nowak, M. and Keppler, H.: The influence of water on the environment of transition metals in silicate glasses, 43
- Nyfelner, D. and Armbruster, T.: Silanol groups in minerals and inorganic compounds, 119
- Ohnuki, T., see Murakami et al., 1209
- O'Neil, J.R., see Blake et al., 1516
- O'Neill, H.St.C., see Harrison et al., 1092
- Orange, D.L., see Kohn et al., 1454
- Orlandi, P., Pasero, M., and Vezzalini, G.: Scandiobabingtonite, a new mineral from the Baveno pegmatite, Piedmont, Italy, 1330
- Ottolini, L., see Selway et al., 896
- Pace, N.R., see Angert et al., 1583
- Pakhomovskii, Y.A., see Barkov et al., 901
- Palme, H., see Dohmen et al., 970
- Pankhurst, Q.A., see Dobson et al., 794
- Parker, S.C., see Wright et al., 141
- Parks, G.A., see Foster et al., 553
- Pasero, M., see Orlandi et al., 1330
- Passaglia, E., Artioli, G., and Gualtieri, A.: Crystal chemistry of the zeolites erionite and offretite, 577
- Passaglia, E., see Coombs et al., 935
- Passaglia, E., see Gualtieri et al., 590
- Pawley, A.R.: The reaction talc + forsterite = enstatite + H_2O : New experimental results and petrological implications, 51
- Pawley, A.R., Chinnery, N.J., and Clark, S.M.: Volume measurements of zoisite at simultaneously elevated pressure and temperature, 1030
- Peacor, D.R., see Coombs et al., 935
- Peacor, D.R., see Grew et al., 638
- Peek, A.S., see Angert et al., 1583
- Penn, R.L. and Banfield, J.F.: Oriented attachment and growth, twinning, polytypism, and formation of metastable phases: Insights from nanocrystalline TiO_2 , 1077
- Pertsev, N.N., see Jambor et al., 907
- Peters, T., see Arlt et al., 657
- Peters, T., see Arlt et al., 1156
- Phelps, T.S., see Zhang et al., 1409
- Pickering, J.M., Schwab, B.E., and Johnston, A.D.: Off-center hot spots: Double thermocouple determination of the thermal gradient in a 1.27 cm ($1/2$ in.) CaF_2 piston-cylinder furnace assembly, 228
- Pier, J., see Teertstra et al., 1335
- Piper, D.Z., see Medrano et al., 889
- Poggi, S.H., Skinner, H.C.W., Ague, J.J., and Carter, D.: Using scanning electron microscopy to study mineral deposits in breast tissues, 1122
- Popp, R.K., see Mysen et al., 942
- Poppi, L., see Brigatti et al., 775
- Pósfai, M., Buseck, P.R., Bazylinski, D.A., and Frankel, R.B.: Iron sulfides from magnetotactic bacteria: Structure, composition, and phase transitions, 1469
- Pósfai, M. and Buseck, P.R.: Relationships between microstructure and composition in enargite and luzonite, 373
- Pósfai, M. and Sundberg, M.: Stacking disorder and polytypism in enargite and luzonite, 365
- Pósfai, M., see Devouard et al., 1387
- Post, J.E., see Ross and Post, 1133
- Pratt, A.R., see Nesbitt et al., 1067
- Prewitt, C.T., see Yang et al., 288
- Price, G.D., see Chaplin et al., 841
- Pring, A., see Birch et al., 172
- Purvis, O.W., see Haas et al., 1494
- Putnis, A., see Grguric et al., 1231
- Puziewicz, J., see Jambor et al., 65
- Quartieri, S., see Coombs et al., 935
- Radoslovich, E.W., see Rieder et al., 1366
- Radvanec, M., Banno, S., and Ernst, W.G.: Chemical microstructure of Franciscan jadeite from Pacheco Pass, California, 273
- Raith, M., see Gessmann et al., 936
- Rammensee, W., see Dohmen et al., 970
- Rao, K.R., see Chaplot et al., 937
- Ray, R., see Larsen et al., 1563
- Redfern, S.A.T., see Harrison et al., 1092
- Reeder, R.J., see Zhang et al., 280
- Rehak, P., Kunath-Fandrei, G., Losso, P., Hildmann, B., Schneider, H., and Jäger, C.: Study of the Al coordination in mullites with varying Al:Si ratio by ^{27}Al NMR spectroscopy and X-ray diffraction, 1266
- Reichmann, H.J., Angel, R.J., Spetzler, H., and Bassett, W.A.: Ultrasonic interferometry and X-ray measurements on MgO in a new diamond anvil cell, 1357
- Reid, P.R., see Visscher et al., 1482
- Richet, P., see George et al., 1277
- Richet, P., see Hovis et al., 931
- Riciputi, L.R., see Kohn et al., 1454
- Rieder, M., Cavazzini, G., D'Yakovov, Y.S., Frank-Kamenetskii, V.A., Gottardi, G., Guggenheim, S., Koval, P.V., Müller, G., Neiva, A.M.R., Radoslovich, E.W., Robert, J.-L., Sassi, F.P., Takeda, H., Weiss, Z., and Wones, D.R.: Special Notice: Web paper. Nomenclature of the micas, 1366
- Richmond, N.C. and Brodholt, J.P.: Calculated role of aluminum in the incorporation of ferric iron into magnesium silicate perovskite, 947
- Rinaldi, R., see Coombs et al., 935
- Robbins, L.L., see Yates and Robbins, 1503
- Robert, J.-L., see Rieder et al., 1366
- Roberts, A.C., see Cooper et al., 390
- Roberts, A.C., see Jambor and Roberts, 400
- Roberts, A.C., see Jambor et al., 185
- Roberts, A.C., see Jambor et al., 652
- Roberts, A.C., see Jambor et al., 907
- Roberts, A.C., see Jambor et al., 1117
- Roberts, A.C., see Jambor et al., 1347
- Roberts, A.C., see Smith et al., 126
- Roberts, M.P., see Finger et al., 248
- Rock, P.A., see Mercy et al., 739
- Rogers, J.R., Bennett, P.C., and Choi, W.J.: Feldspars as a source of nutrients for microorganisms, 1532
- Romanek, C.S., see Zhang et al., 1409
- Romano, C., see Dingwell et al., 236
- Romano, C., see Mungall et al., 685
- Rønso, J., see Giester et al., 178
- Rosenberg, P.E., see Yates and Rosenberg, 1199
- Ross, M. and Post, J.E.: Memorial of Daniel

- E. Appleman, 1931–1998, 1133
 Ross, M., see Coombs et al., 935
 Ross, N.L., see Chaplin et al., 841
 Rossman, G.R., see Amthauer and Rossman, 835
 Rossman, G.R., see Hammer et al., 569
 Rouse, R.C., see Grew et al., 638
 Roux, J., see Hovis et al., 931
 Rundlöf, H., see Baron et al., 786
- Sainctavit, P., see Cabaret et al., 300
 Salje, E.K.H., Buckley, A., Van Tendeloo, G., Ishibashi, Y., and Nord, G.L. Jr.: Needle twins and right-angled twins in minerals: Comparison between experiment and theory, 811
 Salje, E.K.H., see Boffa Ballaran et al., 434
 Salje, E.K.H., see Carpenter et al., 2
 Salje, E.K.H., see Chrosch et al., 1083
 Salyn, A.L., see Drits et al., 1188
 Sarashina, I. and Endo, K.: Primary structure of the soluble matrix protein of scallop shell: Implications for calcium carbonate biomineralization, 1510
 Sarp, H. and Cerny, R.: Description and crystal structure of Yvonite, $\text{Cu}(\text{AsO}_3\text{OH})_2\text{H}_2\text{O}$, 383
 Sassi, F.P., see Rieder et al., 1366
 Sawicki, J.A., see Brown et al., 1419
 Scaini, M.J., Bancroft, G.M., and Knipe, S.W.: Reactions of aqueous Au^{1+} sulfide species with pyrite as a function of pH and temperature, 316
 Scaini, M.J., see Maddox et al., 1240
 Scaini, M.J., see Nesbitt et al., 1067
 Schaal, R.B., see Hofmeister et al., 1293
 Schaefer, M.W., see Dyar et al., 1361
 Schermaier, A., see Finger et al., 248
 Schmidt, C., Chou, I.-M., Bodnar, R.J., and Bassett, W.A.: Microthermometric analysis of synthetic fluid inclusions in the hydrothermal diamond-anvil cell, 995
 Schmidt, M.W., Finger, L.W., Angel, R.J., and Dinnebier, R.E.: Synthesis, crystal structure, and phase relations of AlSiO_3OH , a high-pressure hydrous phase, 881
 Schoonen, M.A.A., see Guevremont et al., 1253
 Schoonheydt, R.A., see Johnston et al., 75
 Schott, J., see Zotov et al., 516
 Schrenk, M.O., see Edwards et al., 1444
 Schwab, B.E., see Pickering et al., 228
 Scott, S.C., see Fortin et al., 1399
 Seifert, F., see Knoche et al., 1168
 Selway, J.B., Novák, M., Hawthorne, F.C., Cerny, P., Ottolini, L., and Kyser, T.K.: Rossmanite, $\square(\text{LiAl}_2)\text{Al}_6(\text{Si}_6\text{O}_{18})(\text{BO}_3)_3(\text{OH})_4$, a new alkali-deficient tourmaline: Description and crystal structure, 896
 Sharp, T.G., see Meissner et al., 546
 Shearer, C.K., see Grew et al., 638
 Sheppard, R.A., see Coombs et al., 935
 Sherriff, B.L., see Brown et al., 1419
 Shinno, I. and Li, Z.: Octahedral site Fe^{2+} quadrupole splitting distributions from the Mössbauer spectra of arrojadite, 1316
 Siering, P.L.: The double helix meets the crystal lattice: The power and pitfalls of nucleic acid approaches for biominerological investigations, 1593
 Simon, O.J., see Verschure and Simon, 1136
 Skála, R., see Bouska et al., 1340
 Skinner, H.C.W., see Poggi et al., 1122
 Smith, D.K., Roberts, A.C., Bayliss, P., and Liebau F.: A systematic approach to general and structure-type formulas for minerals and other inorganic phases, 126
 Smith, S.C., see Zachara et al., 1426
 Spera, F.J., see Nevins and Spera, 1220
 Spetzler, H., see Reichmann et al., 1357
 Spiering, B., see Gessmann et al., 936
 Stakes, D., see Kohn et al., 1454
 Stebbins, J.F., see Fiske et al., 1285
 Stebbins, J.F., see George and Stebbins, 1022
 Stebbins, J.F., see George et al., 1277
 Stirling, J.A.R., see Cooper et al., 390
 Stone, A., see Larsen et al., 1563
 Strongin, D.R., see Guevremont et al., 1246
 Strongin, D.R., see Guevremont et al., 1353
 Su, S.-C., see Grew et al., 638
 Sucha, V., Elsass, F., Eberl, D.D., Kuchta, L., Madejová, J., Gates, W.P., and Komadel, P.: Hydrothermal synthesis of ammonium illite, 58
 Sugaki, A., and Kitakaze, A.: High form of pentlandite and its thermal stability, 133
 Sundberg, M., see Pósfai and Sundberg, 365
 Sutton, S.R., see Dyar et al., 1361
- Tait, S.: Erratum: Selective preservation of melt inclusions in igneous phenocrysts, 1367
 Takeda, H., see Rieder et al., 1366
 Taucher, J., see Bernhard et al., 625
 Taylor, A.P., see Uwins et al., 1541
 Taylor, M.E., see Dyer et al., 848
 Tazzoli, V., see Boffa Ballaran et al., 419
 Tazzoli, V., see Boffa Ballaran et al., 434
 Teertstra, D.K., Cerny, P., Hawthorne, F.C., Pier, J., Wang, L.-M., and Ewing, R.C.: Rubicline, a new feldspar from San Piero in Campo, Elba, Italy, 1335
 Tellgren, R., see Baron et al., 786
 Thompson, J.F.: *Magma, Fluids, and Ore Deposits*. By B.R. Berger 191
 Thompson, J.A. Jr., see Visscher et al., 1482
 Thost, D.E., see Grew et al., 638
 Thu Ha Thi Tran, see Frost et al., 1182
 Tian, J., see Larsen et al., 1563
 Tillmanns, E., see Coombs et al., 935
 Tingle, T.N., see Foster et al., 553
 Todd, C.S.: Limits on the precision of geobarometry at low grossular and anorthite content, 1161
 Toplis, M.J.: Energy barriers to viscous flow and the prediction of glass transition temperatures of molten silicates, 480
 Tornos, F., see Caballero et al., 167
 Tornos, F., see Caballero et al., 668
 Traina, S.J., see Lower et al., 147
 Tribaudino, M., Benna, P., and Bruno, E.: Structural variations induced by thermal treatment in lead feldspar ($\text{PbAl}_2\text{Si}_2\text{O}_8$), 159
- Ullrich, B., see Nasdala et al., 1111
 Ulmer P., see Arlt et al., 657
 Uspensky, E., see Brugger et al., 1100
 Uwins, P.J.R., Webb, R.I., and Taylor, A.P.: Novel nano-organisms from Australian sandstones, 1541
- Vali, H., see Zhang et al., 1409
 Van Tendeloo, G., see Salje et al., 811
 Vaughan, D.J., see Wright et al., 141
 Veblen, D.R.: Presentation of the Mineralogical Society of America Award for 1997 to Jillian Fiona Banfield, 916
 Velde, D., see Grey et al., 1323
 Vennemann, T., see Moore et al., 36
 Verschure, R.H. and Simon, O.J.: Memorial of Oen Ing Soen, 1928–1996, 1136
 Vezzalini, G., see Coombs et al., 935
 Vezzalini, G., see Orlandi et al., 1330
 Viani, A., see Gualtieri et al., 590
 Virgo, D., see Mysen et al., 942
 Visscher, P.T., Reid, R.P., Bebout, B.M., Hoefl, S.H., MacIntyre, I.G., and Thompson, J.A. Jr.: Formation of lithified micritic laminae in modern marine stromatolites (Bahamas): The role of sulfur cycling, 1482
- Walter, F., see Bernhard et al., 625
 Wang, L.-M., see Teertstra et al., 1335
 Wang, Y., see Andrault et al., 1045
 Watson, E.B., see Moore et al., 700
 Watson, E.B., see Winther et al., 1141

- Watson, G.W., see Wright et al., 141
- Webb, R.L., see Uwins et al., 1541
- Weidner, D.J., see Xia et al., 68
- Weiss, Z., see Rieder et al., 1366
- Welch, M.D., Liu, S., and Klinowski, J.: ²⁹Si MAS NMR systematics of calcic and sodic-calcic amphiboles, 85
- Welch, S.A., see Barker et al., 1551
- Wenk, H.-R., see Medrano et al., 889
- Westrum, E.F. Jr., see Hemmingway et al., 409
- White, W.B., see Boldish and White, 865
- Wiedenbeck, M., see Grew et al., 638
- Wilkin, R.T., and Barnes, H.L.: Solubility and stability of zeolites in aqueous solution: I. Analcime, Na-, and K-clinoptilolite, 746
- Winther, K.T., Watson, E.B., and Korenowski, G.M.: Magmatic sulfur compounds and sulfur diffusion in albite melt at 1 GPa and 1300–1500 °C, 1141
- Wise, M., see Dyer et al., 848
- Witzke, T., see Nasdala et al., 1111
- Wones, D.R., see Rieder et al., 1366
- Wood, B.J., see Gudfinnsson and Wood, 1037
- Woodland, A.B. and Angel, R.J.: Crystal structure of a new spinelloid with the wadsleyite structure in the system Fe₂SiO₄-Fe₃O₄ and implications for the Earth's mantle, 404
- Wright, K., Watson, G.W., Parker, S.C., and Vaughan, D.J.: Simulation of the structure and stability of sphalerite (ZnS) surfaces, 141
- Wruck, B., see Carpenter et al., 2
- Xia, X., Weidner, D.J., and Zhao, H.: Equation of state of brucite: Single-crystal Brillouin spectroscopy study and polycrystalline pressure-volume-temperature measurement, 68
- Xirouchakis, D. and Lindsley, D.H.: Equilibria among titanite, hedenbergite, fayalite, quartz, ilmenite, and magnetite: Experiments and internally consistent thermodynamic data for titanite, 712
- Xu, H., Buseck, P.R., and Luo, G.: HRTEM investigation of microstructures in length-slow chalcedony, 542
- Xu, Z., see Fiske et al., 1285
- Yang, H., Hazen, R.M., Prewitt, C.T., Finger, L.W., Lu, R., and Hemley, R.J.: High-pressure single-crystal X-ray diffraction and infrared spectroscopic studies of the C2/m-P2₁/m phase transition in cummingtonite, 288
- Yang, H., see Evans and Yang, 458
- Yang, Z., see Giester et al., 178
- Yates, D.M. and Rosenberg, P.E.: Characterization of neofomed illite from hydrothermal experiments at 250 °C and $P_{vs, \text{soln}}$: An HRTEM/ATEM study, 1199
- Yates, K.K. and Robbins, L.L.: Production of carbonate sediments by a unicellular green alga, 1503
- Yates, M.G., see Grew et al., 638
- Ylagan, R., see Drits et al., 1188
- Zachara, J.M., Fredrickson, J.K., Li, S.-M., Kennedy, D.W., Smith, S.C., and Gassman, P.L.: Bacterial reduction of crystalline Fe³⁺ oxides in single phase suspensions and subsurface materials, 1426
- Zák, K., see Bouska et al., 1340
- Zelinka, J., see Bouska et al., 1340
- Zemann, J., see Giester et al., 178
- Zhang, C., Vali, H., Romanek, C.S., Phelps, T.S., and Liu, S.V.: Formation of single-domain magnetite by a thermophilic bacterium, 1409
- Zhang, J., Martinez, I., Guyot, F., and Reeder, R.J.: Effects of Mg-Fe²⁺ substitution in calcite-structure carbonates: Thermoelastic properties, 280
- Zhang, J., see Herzberg and Zhang, 491
- Zhao, H., see Xia et al., 68
- Zotov, A., Mukhamet-Galeev, A., and Schott, J.: An experimental study of kaolinite and dickite relative stability at 150–300 °C and the thermodynamic properties of dickite, 516
- Zotov, N. and Keppler, H.: The influence of water on the structure of hydrous sodium tetrasilicate glasses, 823