

2002 Author Index

- Akai, J., see Nakano et al., 1377
 Akai, J., see Ohfugi and Akai, 176
 Anderson, A.J., Jayanetti, S., Mayanovic, R.A., Bassett, W.A., and Chou, I.M.: X-ray spectroscopic investigations of fluids in the hydrothermal diamond anvil cell: The hydration structure of aqueous La^{3+} up to 300°C and 1600 bars, 262
 Andersen, D.J., see Xirouchakis et al., 658
 Andreatti, G.B., and Princivalle, F.: Kinetics of cation ordering in synthetic MgAl_2O_4 spinel, 838
 Ando, Y., see Ishida et al., 891
 Angel, R.J. and Jackson, J.M.: Elasticity and equation of state of orthoenstatite, MgSiO_3 , 558
 Aranovich, L.Y., see Haefner et al., 822
 Armbruster, T., see Henjny and Armbruster, 277
 Armbruster, T., see Rodehorst et al., 542
 Andrault, D., see Fiquet et al., 1261
 Andreatti, G.B., and Lucchesi, S.: Intersite distribution of Fe^{2+} and Mg in the spinel (sensu stricto)–hercynite series by single-crystal X-ray diffraction, 1113
 Aramovich, C.J., Herd, C.D.K., and Papike, J.J.: Symplectites derived from metastable phases in martian basaltic meteorites, 1351
 Aronson, J. and Bish, D.: Preface Remarks to the Reynolds' Commemorative Volume, 1517
 Arredondo, E.H. and Rossman, G.R.: Feasibility of determining the quantitative OH content of garnets with Raman spectroscopy, 307
 Artacho, E., see Sainz-Díaz et al., 958
 Artioli, G., see Camana et al., 1128
 Artioli, G., see Viani et al., 966
 Asimow, P.: Presentation of the Mineralogical Society of America Dana Medal for 2001 to George R. Rossman, 799
 Bachmann, O. and Dungan, M.A.: Temperature-induced Al-zoning in hornblendes of the Fish Canyon magma, Colorado, 1062
 Balan, E., Saitta, A.M., Mauri, F., Lemaire, C., and Guyot, F.: First-principles calculation of the infrared spectrum of lizardite, 1286
 Ballaran, T.B., McCammon, C.A., and Carpenter, M.A.: Order parameter behavior at the structural phase transition in cummingtonite from Mössbauer spectroscopy, 1490
 Ballaran, T.B., see Comodi et al., 1164
 Ballirano, P., Callegari, A., Caucia, F., Maras, A., Mazzi, F., and Ungaretti, L.: The crystal structure of vicinite-(Ce), a borosilicate showing an unusual $(\text{Si}_3\text{B}_3\text{O}_{18})^{15-}$ polyanion, 1139
 Ballone, P., Quartieri, S., Sani, A., and Vezzalini, G.: High-pressure deformation mechanism in scolecite: A combined computational-experimental study, 1194
 Barbier, J., Grew, E.S., Hålenius, E., Hålenius, U., and Yates, M.G.: The role of Fe and cation order in the crystal chemistry of surinamite, $(\text{Mg},\text{Fe}^{2+})_3(\text{Al},\text{Fe}^{3+})_3\text{O}[\text{AlBeSi}_3\text{O}_{15}]$: A crystal structure, Mössbauer spectroscopic, and optical spectroscopic study, 501
 Barrat, J.A., see Benzerara et al., 1250
 Bartels, K.S. and Furman, T.: Effect of sonic and ultrasonic frequencies on the crystallization of basalt, 217
 Barton, P.B.: Memorial of Harold Lloyd James, 1912–2000, 370
 Bassett, W.A., see Anderson et al., 262
 Bassett, W.A., see Darling and Bassett, 69
 Bazylinski, D.A., see Clemett et al., 1727
 Beard, J.S. and Tracy, R.J.: Spinels and other oxides in Mn-rich rocks from the Hutter Mine, Pittsylvania County, Virginia, U.S.A.: Implications for miscibility and solvus relations among jacobsite, galaxite, and magnetite, 690
 Becerro, A.I., see Meyer et al., 1291
 Benzerara, K., Guyot, F., Barrat, J.A., Gillet, P., and Lesourd, M.: Cristobalite inclusions in the Tatahouine achondrite: Implications for shock conditions, 1250
 Berndt, J., Liebske, C., Holtz, F., Freise, M., Nowak, M., Ziegenbein, D., Hurkuck, W., and Koepke, J.: A combined rapid-quench and H_2 -membrane setup for internally heated pressure vessels: Description and application for water solubility in basaltic melts, 1717
 Bernhardt, H.J., see Krause et al., 726
 Berry, A.J., see Mavrogenes et al., 1360
 Bickmore, B.R., Nagy, K.L., Sandlin, P.E., and Crater, T.S.: Quantifying surface areas of clays by atomic force microscopy, 780
 Bilinski, H., Giovanoli, R., Usui, A., and Hanžel, D.: Characterization of Mn oxides in cemented streambed crusts from Pinal Creek, Arizona, U.S.A., and in hot-spring deposits from Yuno-Taki Falls, Hokkaido, Japan, 580
 Bindi, L., see Bonazzi and Bindi, 845
 Bindi, L., see Menchetti et al., 721
 Bish, D., see Aronson and Bish, 1517
 Bish, D. L., see Reynolds and Bish, 1626
 Bismayer, U., Zhang et al., 882
 Bodnar, R.J., see Thomas and Bodnar, 1505
 Boctor, N.Z., see Dera et al., 1018
 Bolfan-Casanova, N., Keppeler, H., and Rubie, D.C.: Hydroxyl in MgSiO_3 akimotoite: A polarized and high-pressure IR study, 603
 Bonazzi, P. and Bindi, L.: Structural properties and heat-induced oxidation-dehydrogenation of manganian ilvaite from Perda Niedda mine, Sardinia, Italy, 845
 Bonazzi, P., see Menchetti et al., 721
 Bonazzi, P., see Oberti et al., 745
 Bonazzi, P., see Ventura et al., 739
 Borges, J., see Totten et al., 1571
 Borzdov, Y.M., see Pal'yanov et al., 1009
 Bosi, F., Lucchesi, S., and Giusta, A.D.: Structural relationships in $(\text{Mn}_{1-x}\text{Zn}_x)\text{Mn}_2\text{O}_4$ ($0 \leq x \leq 0.26$): The “dragging effect” of the tetrahedron on the octahedron, 1121
 Botelho, N.F., see De Oliveira et al., 1154
 Botella, V., see Sainz-Díaz et al., 958
 Bougerol-Chailout, C., see Drits et al., 1646
 Bove, D.J., Eberl, D.D., McCarty, D.K., and Meeker, G.P.: Characterization and modeling of illite crystal particles and growth mechanisms in a zoned hydrothermal deposit, Lake City, Colorado, 1546
 Britvin, S.N., Rudashevsky, N.S.,

- Krivovichev, S.V., Burns, P.C., and Polekhovskiy, Yuri S.: Allabogdanite, (Fe,Ni)₂P, a new mineral from the Onello meteorite: The occurrence and crystal structure, 1245
- Brooker, R.A., see Kohn et al., 293
- Brown, G.E. Jr: see Prewitt et al., 1514
- Brunet, F., see Imbach et al., 947
- Buhre, S., see Walker et al., 805
- Burns, P.C.: Acceptance of the Mineralogical Society of America Award for 2001, 795
- Burns, P.C. and Li, Y.: The structures of becquerelite and Sr-exchanged becquerelite, 550
- Burns, P.C., see Britvin et al., 1245
- Buseck, P.R., see Cámara et al., 1458
- Buseck, P.R., see Dódony et al., 1443
- Buseck, P.R., see Konishi et al., 1096
- Caballero, J.M., Oberti, R., and Ottolini, L.: Ferripedrizite, a new monoclinic BLi amphibole end-member from the Eastern Pedriza Massif, Sierra de Guadarrama, Spain, and a restatement of the nomenclature of Mg-Fe-Mn-Li amphiboles, 976
- Cahill, C., see Mancini et al., 302
- Calder, B.O.E., see Lusk et al., 1390
- Callegari, A., see Ballirano et al., 1139
- Camana, G., Chateigner, D., Zucali, M., and Artioli, G.: The grid-work texture of authigenic microcrystalline quartz in siliceous crust-type (SCT) mineralized horizons, 1128
- Cámara, F., Ottolini, L., and Hawthorne, F.C.: Crystal chemistry of three tourmalines by SREF, EMPA, and SIMS, 1437
- Cámara, F., Garvie, L.A.J., Devouard, B., Groy, T.L., and Buseck, P.R.: The structure of Mn-rich tuperussaitite: A palygorskite-related mineral, 1458
- Cámara, F., see Ottolini et al., 1477
- Cámara, F., see Tribaudino et al., 648
- Camus, P., see Jakubowski et al., 1029
- Carlson, W.D.: Scales of disequilibrium and rates of equilibration during metamorphism, 185
- Carpenter, M.A., Ballaran et al., 1490
- Carpenter, M.A., see Meyer et al., 1291
- Castañeda, C., see De Oliveira et al., 1154
- Castañeda, C., see Eeckhout et al., 1297
- Caucia, F., see Ballirano et al., 1139
- Cavosie, A.J., Sharp, Z.D., and Selverstone, J.: Co-existing aluminum silicates in quartz veins: A quantitative approach for determining andalusite-sillimanite equilibrium in natural samples using oxygen isotopes, 417
- Čejka, J., see Ondruš et al., 983
- Celestian, A., see Zhang et al., 566
- Celestre, R.S., see Manceau et al., 1494
- Cesare, B., Gómez-Pugnaire, M.T., Sánchez-Navas, A., and Grobety, B.: Andalusite-sillimanite replacement (Mazarrón, SE Spain): A microstructural and TEM study, 433
- Chaplin, T.D., see Ross et al., 1410
- Charnley N.R., see Waters and Charnley, 383
- Charpentier, T., see Imbach et al., 947
- Chateigner, D., see Camana et al., 1128
- Chen, N., Pan, Y., and Weil, J.H.: Electron paramagnetic resonance spectroscopic study of synthetic fluorapatite: Part I. Local structural environment and substitution mechanism of Gd³⁺ at the Ca2 site, 37
- Chen, N., Pan, Y., Weil, J.A., and Nilges, M.J.: Electron paramagnetic resonance spectroscopic study of synthetic fluorapatite: Part II. Gd³⁺ at the Ca1 site, with a neighboring Ca2 vacancy, 47
- Chen, N., see Pan et al., 1333
- Chetty, T.R.K., see Parthasarathy et al., 1384
- Chinnery, N.J., see Pawley et al., 1172
- Christy, A.G., Tabira, Y., Hölscher, A., Grew, E.S., and Schreyer, W.: Synthesis of beryllian sapphirine in the system MgO-BeO-Al₂O₃-SiO₂-H₂O and comparison with naturally occurring beryllian sapphirine and khmaralite. Part 1: Experiments, TEM, and XRD, 1104
- Chou, I.M., Seal, R.R., II, and Hemingway, B.S.: Determination of melanterite-rozenite and chalcantite-bonattite equilibria by humidity measurements at 0.1 MPa, 108
- Chou, I.M., see Anderson et al., 262
- Císařová, I., see Ondruš et al., 983
- Claeson and Meurer, W.P.: An occurrence of igneous orthorhombic amphibole, Eriksberg gabbro, southern Sweden, 699
- Clark, S.M., see Pawley et al., 1172
- Clark, S.M., see Shaw et al., 533
- Clark, S.M., see Walker et al., 805
- Clauer, N., see Środoń et al., 1528
- Clemett, S.J., Thomas-Keprta, K.L., Shimmin, J., Morphew, M., McIntosh, J.R., Bazylinski, D.A., Kirschvink, J.L., Wentworth, S.J., McKay, D.S., Vali, H., Gibson, E.K.Jr., and Romanek, C.S.: Crystal morphology of MV-1 magnetite, 1727
- Cohen, C., see Lemelle et al., 327
- Comodi, P., Montagnoli, M., Zanazzi, P.F., and Ballaran, T.B.: Isothermal compression of staurolite: A single-crystal study, 1164
- Cong, B.-L., see Ye et al., 875
- Connolly, J.A.D., see Haefner et al., 822
- Cranswick, L.M.D., see Walker et al., 805
- Crater, T.S., see Bickmore et al., 780
- Crichton, W.A. and Ross, N.J.: Equation of state of dense hydrous magnesium silicate phase A, Mg₇Si₂O₈(OH)₆, 333
- Criddle, A.J., see Effenberger et al., 753
- Dainyak, L.G., see Drits et al., 1590
- Dal Negro, A., see Secco et al., 709
- Darling, R.S. and Bassett, W.A.: Analysis of natural H₂O + CO₂ + NaCl fluid inclusions in the hydrothermal diamond anvil cell, 69
- Davé, N.K., see Paktunc and Davé, 593
- DeAbel, F., see Lemelle et al., 327
- de Grave, E., see de Grave et al., 132
- de Grave, E., see De Oliveira et al., 1154
- de Grave, E., see Eeckhout et al., 1297
- de Grave, J., de Paepe, P., de Grave, E., Vochten, R., and Eeckhout, S.G.: Mineralogical and Mössbauer spectroscopic study of a diopside occurring in the marbles of Andranondambo, southern Madagascar, 132
- Delaney, J.S., see Dyar et al., 514
- Delaney, J.S., see Dyar et al., 1500
- Delaney, J.S., see Righter et al., 142
- De Giudici, G.: Surface control vs. diffusion control during calcite dissolution: Dependence of step-edge velocity upon solution pH, 1279
- De Leeuw, N.H.: Surface structures, stabilities and growth of magnesian calcites: A computational investigation from the perspective of dolomite formation, 679
- De Oliveira, E.F., Castañeda, C., Eeckhout, S.G., Gilmar, M.M., Kwitko, R.R., De Grave, E., and Botelho, N.F.: Infrared and Mössbauer study of Brazilian tourmalines from different geological environments, 1154
- de Paepe, P., see de Grave et al., 132
- Dera, P., Prewitt, C.T., Boctor, N.Z., and Hemley, R.J.: Characterization of a high-pressure phase of silica from the Martian meteorite Shergotty, 1018
- De Vivo, B., see Webster and De Vivo, 1046
- Devouard, B., see Cámara et al., 1458
- Diaz, M., Laperche, V., Harsh, J., and Prost,

- R.: Far infrared spectra of K^+ in dioctahedral and trioctahedral mixed-layer minerals: 1207
- Dobson, D.P., Vočadlo, L., and Wood, I.G.: A new high-pressure phase of FeSi, 784
- Dódony, I., Pósfai, M., and Buseck, P.R.: Revised structure models for antigorite: An HRTEM study, 1443
- Dódony, I., see Konishi et al., 1096
- Domeneghetti, M.C., see Tribaudino et al., 648
- Downs, R.T., see Lager et al., 642
- Drits, V.A., Sakharov, B.A., Dainyak, L.G., Salyn, A.L., and Lindgreen, H.: Structural and chemical heterogeneity of illite-smectites from Upper Jurassic mudstones of East Greenland related to volcanic and weathered parent rocks, 1590
- Drits, V.A., Lanson, B., Bougerol-Chaillout, C., Gorshkov, A.I., and Manceau, A.: Structure of heavy-metal sorbed birnessite: Part 2. Results from electron diffraction, 1646
- Drits, V.A., see Eberl et al., 1235
- Drits, V.A., see Lanson et al., 1631
- Drits, V.A., see Lanson et al., 1662
- Du, L.-S., see Neuhoff et al., 1307
- Du, L.S., see Stebbins and Du, 359
- Dungan, M.A., Bachmann and Dungan, 1062
- Dutrow, B.L.: Introduction to the Michael J. Holdaway commemorative issue, 373
- Duffy, T.S., see Shim and Duffy, 318
- Dyar, D., see Richter et al., 142
- Dyar, M.D., Lowe, E.W., Guidotti, C.V., and Delaney, J.S.: Fe^{3+} and Fe^{2+} partitioning among silicates in metapelites: A synchrotron micro-XANES study, 514
- Dyar, M.D., Gunter, M.E., Delaney, J.S., Lanzirotti, A., and Sutton, S.R.: Use of the spindle stage for orientation of single crystals for microXAS: Isotropy and anisotropy in Fe-XANES spectra, 1500
- Dyar, M.D., see Johnson et al., 899
- Eberl, D.D., Kile, D.E., and Drits, V.A.: On geological interpretations of crystal size distributions: Constant vs. proportionate growth, 1235
- Eberl, D.D., see Bove et al., 1546
- Eberl, D.D., see Šrodoň et al., 1528
- Eeckhout, S.G., Castañeda, C., Ferreira, A.C.M., Sabioni, A.C.S., de Grave, E., and Vasconcelos, D.C.L.: Spectroscopic studies of spessartine from Brazilian pegmatites, 1297
- Eeckhout, S.G., see de Grave et al., 132
- Eeckhout, S.G., see De Oliveira et al., 1154
- Effenberger, H., Paar, W.H., Topa, D., Criddle, A.J., and Fleck M.: The new mineral baumstarkite and a structural reinvestigation of aramayoite and miargyrite, 753
- Effenberger, H., see Krause et al., 726
- Eggleston, C.M., see Henriksen et al., 1273
- Elliott, W.C. and Haynes, J.T.: The chemical character of fluids forming diagenetic illite in the Southern Appalachian Basin, 1519
- Ellis, D.J., see Zhang et al., 853
- Ellis, D.J., see Zhang et al., 861
- Ernst, W.G.: Paragenesis and thermobarometry of Ca-amphiboles in the Barcroft granodioritic pluton, central White Mountains, eastern California, 478
- Ertl, A., see Marler and Ertl, 364
- Evans, B.W., see Ghiorso and Evans, 79
- Farrell, S.P., Fleet, M.E., Stekhin, I.E., Kravtsova, A., Soldatov, A.V., and Liu, X.: Evolution of local electronic structure in alabandite and niningerite solid solutions [(Mn,Fe)S, (Mg,Mn)S, (Mg,Fe)S] using sulfur *K*- and *L*-edge XANES spectroscopy, 1321
- Faure, K., see Mandeville et al., 813
- Fei, Y., see Koch-Müller et al., 609
- Feng, Q., see Lanson et al., 1662
- Ferraris, G., see Grice and Ferraris, 1266
- Ferreira, A.C.M., see Eeckhout et al., 1297
- Ferro, O., Quartieri, S., Vezzalini, G., Fois, E., Gamba, A., and Tabacchi, G.: High-pressure behavior of bikitaite: An integrated theoretical and experimental approach, 1415
- Ferry, J.M., Newton, R.C., and Manning, C.E.: Experimental determination of the equilibria: rutile + magnesite = geikielite + CO_2 and zircon + 2 magnesite = baddeleyite + forsterite + 2 CO_2 , 1342
- Fialips, C.I., Huo, D., Yan, L., Wu, J., and Stucki, J.W.: Effect of Fe oxidation state on the IR spectra of Garfield nontronite, 630
- Fiquet, G., Guyot, F., Kunz, M., Matas, J., Andraut, D., and Hanfland, M.: Structural refinements of magnesite at very high pressure, 1261
- Fisher, A.T.: *Crustal heat flow: a guide to measurement and modeling*. By G.R. Beardsmore and J.P. Cull, 1026
- Fischer, R.X., see Piotrowski et al., 715
- Fjellvåg, H., Hauback, B.C., Vogt, T., and Stølen, S.: Monoclinic nearly stoichiometric wüstite at low temperatures, 347
- Fleck, M., see Effenberger et al., 753
- Fleet, M.E., see Farrell et al., 1321
- Flemming, R.L. and Luth, R.W.: ^{29}Si MAS NMR study of diopside-Ca-Tschermak clinopyroxenes: Detecting both tetrahedral and octahedral Al substitution, 25
- Fockenberg, T., see Grevel et al., 397
- Fois, E., see Ferro et al., 1415
- Forneris, J.F., see King et al., 1077
- Förster, H.J., see Harlov et al., 245
- Fortin D., see Mavrocordatos and Fortin, 940
- Fournelle, J., see Jakubowski et al., 1029
- Franz, G., see Liebscher et al., 909
- Freeman, T.E., see Lusk et al., 1390
- Freise, M., see Berndt et al., 1717
- Fridriksson, T., see Neuhoff et al., 1307
- Friedrich, A., Lager, G.A., Ulmer, P., Kunz, M., and Marshall, W.G.: High-pressure single-crystal X-ray and powder neutron study of F_2OH/OD -chondrodite: Compressibility, structure, and hydrogen bonding, 931
- Frost, D.J., see Kohn et al., 293
- Frost, R.L., see Kloprogge et al., 623
- Fryda, J., see Ondrus et al., 983
- Furman, T., see Bartels and Furman, 217
- Fukasawa, K., see Ogasawara et al., 454
- Furukawa, N., see Hiroi et al., 160
- Gaillard, F., Scaillet, B., and Pichavant, M.: Kinetics of iron oxidation-reduction in hydrous silicic melts, 829
- Gaillot, A.-C., see Lanson et al., 1631
- Galbraith, R.F.: Some remarks on fission-track observational biases and crystallographic orientation effects, 991
- Gamba, A., see Ferro et al., 1415
- Garoutte, R., see Lager et al., 642
- Garvie, L.A.J., see Cámara et al., 1458
- Geiger, C.A., see Kolesov and Geiger, 1426
- Geiger, C.A., see Rodehorst et al., 542
- Ghiorso, M.S. and Evans, B.W.: Thermodynamics of the amphiboles Mancini, F., Harlow, G.E., and Cahill, C.: The crystal structure and cation ordering of Phase-X- $(K_{1-x-n})_2(Mg_{1-n}[Al,Cr]_n)_2Si_2O_7H_{2x}$: A potential K- and H-bearing phase in the mantle, 302: Ca-Mg- Fe^{2+} quadrilateral, 79
- Gibson, E.K.Jr., see Clemett et al., 1727
- Gillet, P., Sautter, V., Harris, J., Reynard, B., Harte, B., and Kunz, M.: Raman spectroscopic study of garnet inclusions in diamonds from the mantle transition

- zone, 312
- Gillet, P., see Benzerara et al., 1250
- Gilmar, M.M., see De Oliveira et al., 1154
- Giovanoli, R., see Bilinski et al., 580
- Giusta, A.D., see Bosi et al., 1121
- Glascock, M.D., see Wilke et al., 491
- Glass, B.P., Liu, S., and Leavens, P.B.:
Reidite: An impact-produced high-pressure polymorph of zircon found in marine sediments, 562
- Goetz, A.F.H., see Martínez-Alonso et al., 1215
- Goetz, A.F.H., see Martínez-Alonso et al., 1224
- Gómez-Pugnaire, M.T., see Cesare et al., 433
- Gorshkov, A.I., see Drits et al., 1646
- Gottschalk, M., see Liebscher et al., 909
- Gottschalk, M., see Najorka et al., 462
- Goreva, J.S., see Ma et al., 269
- Grathoff, G.H. and Moore, D.M.: Characterization of the Waukesha Illite: A mixed-polytype illite in the Clay Mineral Society repository, 1557
- Gravel, K.D., Navrotsky, A., Fockenberg, T., and Majzlan, J.: The enthalpy of formation and internally consistent thermodynamic data of Mg-staurolite, 397
- Grew, E.S., see Barbier et al., 501
- Grew, E.S., see Christy et al., 1104
- Grew, E.S., see Hiroi et al., 160
- Grice, J.D. and Ferraris, G.: New minerals approved in 2001 by the Commission on New Minerals and Mineral Names International Mineralogical Association, 1266
- Groat, L.A., Zhang et al., 882
- Grobety, B., see Cesare et al., 433
- Grove, T.L., see Holzheid and Grove, 227
- Groy, T.L., see Cámara et al., 1458
- Gualtieri, A.F., see Viani et al., 966
- Guidotti, C.V., see Henry and Guidotti, 375
- Guidotti, C.V., see Dyar et al., 514
- Gunter, M.E., see Dyar et al., 1500
- Guyot, F., see Balan et al., 1286
- Guyot, F., see Benzerara et al., 1250
- Guyot, F., see Fiquet et al., 1261
- Guyot, F., see Lemelle et al., 327
- Haefner, A., Aranovich, L.Y., Connolly, J.A.D., and Ulmer, P.: H₂O activity in H₂O-N₂ fluids at high pressure and temperature measured by the brucite-periclase equilibrium, 822
- Haggerty, S.E., see Parthasarathy et al., 1384
- Hålenius, E., see Barbier et al., 501
- Hålenius, U., see Barbier et al., 501
- Hanan, M.A., see Totten et al., 1571
- Hanfland, M., see Fiquet et al., 1261
- Hanlie, H., Xinmin, M., and Zhengyi, F.: Study on adsorption of submicrometer gold on kaolinite by quantum chemistry calculations, 1
- Hanson, L.M., see Hoisch et al., 115
- Haňžel, D., see Bilinski et al., 580
- Harlov, D.E., Förster, H.J., and Nijland, T.G.: Fluid-induced nucleation of (Y + REE)-phosphate minerals within apatite: Nature and experiment. Part I. Chlorapatite, 245
- Harlov, D.E. and Milke, R.: Stability of corundum + quartz relative to kyanite and sillimanite at high temperature and pressure, 424
- Harlov, D.E., see Mookherjee et al., 1686
- Harlow, G.E., see Mancini et al., 302
- Harris, J., see Gillet et al., 312
- Harsh, J., see Diaz et al., 1207
- Harte, B., see Gillet et al., 312
- Hauback, B.C., see Fjellvåg et al., 347
- Hawthorne, F.C.: Presentation of the Mineralogical Society of America Award for 2001 to Peter Burns, 794
- Hawthorne, F.C., see Cámara et al., 1437
- Hawthorne, F.C., see Ishida et al., 891
- Hawthorne, F.C., see Oberti et al., 745
- Hawthorne, F.C., see Ottolini et al., 1477
- Haynes, J.T., see Elliott and Haynes, 1519
- Heaney, P.: Presentation of the Distinguished Public Service Award of the Mineralogical Society of America for 2001 to Jeffery Post, 796
- Heaney, P.J., see Zhang et al., 566
- Heinrich, W., see Najorka et al., 462
- Hemingway, B.S., see Chou et al., 108
- Hemley, R.J., see Dera et al., 1018
- Henderson, C.M.B., see Shaw et al., 533
- Henjny, C. and Armbruster, T.: Polysomatism in högbomite: The crystal structures of 10*T*, 12*H*, 14*T*, and 24*R* polysomes, 277
- Henriksen, K. and Stipp, S.L.S.: Image distortion in scanning probe microscopy, 5
- Henriksen, R.B., Makovicky, E., Stipp, S.L.S., Nissen, C., and Eggleston, C.M.: Atomic-scale observations of franckeite surface morphology, 1273
- Henry, D.J. and Guidotti, C.V.: Titanium in biotite from metapelitic rocks: Temperature effects, crystal-chemical controls, and petrologic applications, 375
- Herd, C.D.K., see Aramovich et al., 1351
- Hernández-Laguna, A., see Sainz-Díaz et al., 958
- Hervig, R.L., Moore, G.M., Williams, L.B., Peacock, S.M., Holloway, J.R., and Roggensack, K.: Isotopic and elemental partitioning of boron between hydrous fluid and silicate melt, 769
- Hervig, R.L., see Williams and Hervig, 1564
- Hervig, R.L., see King et al., 1077
- Hervig, R.L., see Richter et al., 142
- Hickey, L., see Klopogge et al., 623
- Hildmann, B., see Schmücker et al., 1190
- Higgins, M.D.: Closure in crystal size distributions (CSD), verification of CSD calculations, and the significance of CSD fans, 171
- Higgins, M.D.: Reply to comment on "Closure in crystal size distributions (CSD), verification of CSD calculations and the significance of CSD fans," 1244
- Hillier, S., see Ryan and Hillier, 1607
- Hillier, S., see Nadeau et al., 1580
- Hirai, N., see Yamanaka et al., 1183
- Hiroi, Y., Grew, E.S., Motoyoshi, Y., Peacor, D.R., Rouse, R.C., Matsubara, S., Yokoyama, K., Miyawaki, R., McGee, J.J., Su, S.C., Hokada, T., Furukawa, N., and Shibasaki, H.: Ominelite, (Fe,Mg)Al₃BSiO₉ (Fe²⁺ analogue of grandierite), a new mineral from porphyritic granite in Japan, 160
- Hirose, K., see Ono et al., 99
- Hirose, K., see Ono et al., 1486
- Hirschmann, M.M., see Pertermann, 1365
- Hofmeister, A.M., see Koch-Müller et al., 609
- Hoisch, T.D., Wells, M.L., and Hanson, L.M.: Pressure-temperature paths from garnet-zoning: Evidence for multiple episodes of thrust burial in the hinterland of the Sevier orogenic belt, 115
- Hokada, T., see Hiroi et al., 160
- Holloway, J.R., see Hervig et al., 769
- Holloway, J.R., see King et al., 1077
- Hölscher, A., see Christy et al., 1104
- Holtz, F., see Berndt et al., 1717
- Holzheid, A. and Grove, T.L.: Sulfur saturation limits in silicate melts and their implications for core formation scenarios for terrestrial planets, 227
- Hovis, G.L., Roux, J., and Rodrigues, E.: Thermodynamic and structural behavior of analcime-leucite analogue systems, 523
- Huo, D., see Fialips et al., 630
- Hurkuck, W., see Berndt et al., 1717
- Imbach, J., Brunet, F., Charpentier, T., and

- Virlet, J.: Synthesis and NMR characterization (^1H and ^{31}P MAS) of the fluorine-free hydroxylapatite britholite-(Y) series, 947
- Ishida, K., Hawthorne, F.C., and Ando, Y.: Fine structure of infrared OH-stretching bands in natural and heat-treated amphiboles of the tremolite-ferro-actinolite series, 891
- Isshiki, M., see Ono et al., 99
- Jackson, J.M., see Angel and Jackson, 558
- Jakubowski, R.T., Fournelle, J., Welch, S., Swope, R. J., and Camus, P.: Evidence for magmatic vapor deposition of anhydrite prior to the 1991 climactic eruption of Mount Pinatubo, Philippines, 1029
- Jambor, J.L. and Roberts, A.C.: New mineral names, 181
- Jambor, J.L. and Roberts, A.C.: New mineral names, 355
- Jambor, J.L. and Roberts, A.C.: New mineral names, 996
- Jambor, J.L. and Roberts, A.C.: New mineral names, 1509
- Jambor, J.L. and Roberts, A.C.: New mineral names, 1731
- Jaszczak, J.A., see Rakovan and Jaszczak, 17
- Jayanetti, S., see Anderson et al., 262
- Jian, W., see Zhang et al., 853
- Jiang, W., see Zhang et al., 861
- Johnson, E.A., Rossman, G.R., Dyar, M.D., and Valley, J.W.: Correlation between OH concentration and oxygen isotope diffusion rate in diopsides from the Adirondack Mountains, New York, 899
- Jones, R.A. and Nesbitt, H.W.: XPS evidence for Fe and As oxidation states and electronic states in loellingite (FeAs_2), 1692
- Kahlenberg, V., see Piotrowski et al., 715
- Kampf, A.R.: *Minerals of the World (Princeton Field Guides series)*. Johnsen, O., 1516
- Kent, A.J.R. and Rossman, G.R.: Hydrogen, lithium, and boron in mantle-derived olivine: The role of coupled substitutions, 1432
- Keppler, H., see Bolfan-Casanova, 603
- Keppler, H., see Sierralta et al., 1710
- Khokhryakov, A.F., see Pal'yanov et al., 1009
- Kikegawa, T., see Ono et al., 1486
- Kikegawa, T., see Shirasaka et al., 922
- Kile, D.E., see Eberl et al., 1235
- Kim, C.S., see Ylagan et al., 1536
- King, P.L., Vennemann, T.W., Holloway, J.R., Hervig, R.L., Lowenstern, J.B., and Forneris, J.F.: Analytical techniques for volatiles: A case study using intermediate (andesitic) glasses, 1077
- King, P.L., see Righter et al., 142
- Kirschvink, J.L., see Clemett et al., 1727
- Kloprogge, T.J., Wharton, D., Hickey, L., and Frost, R.L.: Infrared and Raman study of interlayer anions CO_3^{2-} , NO_3^- , SO_4^{2-} and ClO_4^- in Mg/Al-hydroxalcite, 623
- Knight, D., see Totten et al., 1571
- Knight, K.S., see Welch et al., 154
- Koch-Müller, M., Hofmeister, A.M., Fei, Y., Liu, Z.: High-pressure IR-spectra and the thermodynamic properties of chloritoid, 609
- Koepke, J., see Berndt et al., 1717
- Kogure, T.: Identification of polytypic groups in hydrous phyllosilicates using electron back-scattering patterns, 1678
- Kohn, S.C., Brooker, R.A., Frost, D.J., Slesinger, A.E., and Wood, B.J.: Ordering of hydroxyl defects in hydrous wadsleyite ($\beta\text{-Mg}_2\text{SiO}_4$), 293
- Kolesov, B.A. and Geiger, C.A.: Raman spectroscopic study of H_2O in bikitaite: "One-dimensional ice," 1426
- Komatsu, Y., see Yamanaka et al., 1183
- Komabayashi, T., see Ono et al., 1486
- Konishi, H., Dódonny, I., and Buseck, P.R.: Protoanthophyllite from three metamorphosed serpentinites, 1096
- Krause, W., Bernhardt, H.J., McCammon, C., and Effenberger, H.: Neustädteite and cobaltneustädteite, the Fe^{3+} - and Co^{2+} -analogues of medenbachite, 726
- Kravtsova, A., see Farrell et al., 1321
- Krivovichev, S.V., see Britvin et al., 1245
- Kroeker, S. Rice, D., and Stebbins, J.F.: Disorder during melting: An ^{17}O NMR Study of crystalline and glassy CaTiSiO_5 (titanite), 572
- Kroeker, S., see Neuhoff et al., 1307
- Kubicki, J.D., and Toplis, M.J.: Molecular orbital calculations on aluminosilicate tricluster molecules: Implications for the structure of aluminosilicate glasses, 668
- Kunz, M., see Fiquet et al., 1261
- Kunz, M., see Friedrich et al., 931
- Kunz, M., see Gillet et al., 312
- Kuwayama, Y., see Ono et al., 1486
- Kwitko, R.R., see De Oliveira et al., 1154
- Lager, G.A., Downs, R.T., Origlieri, M., and Garoutte, R.: High-pressure single crystal X-ray diffraction study of katoite hydrogarnet: Evidence for a phase transition from $Ia3d \rightarrow I43d$ symmetry at 5 GPa, 642
- Lager, G.A., see Friedrich et al., 931
- Langer, K., see Pankrath and Langer, 238
- Lanson, B., Drits, V.A., Gaillot, A.-C., Silvester, E., Plançon, A., and Manceau, A.: Structure of heavy-metal sorbed birnessite: Part 1. Results from X-ray diffraction, 1631
- Lanson, B., Drits, V.A., Feng, Q., and Manceau, A.: Structure of synthetic Nabirnessite: Evidence for a triclinic one-layer unit cell, 1662
- Lanson, B., see Drits et al., 1646
- Lanzirotti, A., see Dyar et al., 1500
- Laperche, V., see Diaz et al., 1207
- Leavens, P.B., see Glass et al., 562
- Lee, Y., see Piotrowski et al., 715
- Le Golvan, J.J., see Schroeder et al., 1616
- Lemaire, C., see Balan et al., 1286
- Lemelle, L., Abel, F., Cohen, C., and Guyot, F.: Study of the (010) olivine surface by Rutherford backscattering spectrometry in channeling geometry, 327
- Lesourd, M., see Benzerara et al., 1250
- Li, Y., see Burns and Li, 550
- Liebske, C., see Berndt et al., 1717
- Liebscher, A., Gottschalk, M., and Franz, G.: The substitution Fe^{3+} -Al and the isosymmetric displacive phase transition in synthetic zoisite: A powder X-ray and infrared spectroscopy study, 909
- Lindgreen, H., see Drits et al., 1590
- Lindsley, D.H., see Xirouchakis et al., 658
- Liou, J.G., see Zhang et al., 455
- Liou, J.G., see Zhang et al., 867
- Liu, J.-B., see Ye et al., 875
- Liu, S., see Glass et al., 562
- Liu, X., see Farrell et al., 1321
- Liu, Y. and Nekvasil, H.: Si-F bonding in aluminosilicate glasses: Inferences from ab initio NMR calculations, 339
- Liu, Z., see Koch-Müller et al., 609
- Lo, C.H., see Zhang et al., 867
- Lowe, E.W., see Dyar et al., 514
- Lowenstern, J.B., see King et al., 1077
- Lucchesi, S., see Andreozzi and Lucchesi, 1113
- Lucchesi, S., see Bosi et al., 1121
- Luck, R.L. and Wang, G.: On the nature of tinalconite, 350
- Lusk, J., Calder, B.O.E., and Freeman, T.E.: Temperatures from triple-junction angles in sulfides, 1390
- Luth, R.W., see Flemming and Luth, 25

- Ma, C., Goreva, J.S., and Rossman, G.R.: Fibrous nano-inclusions in massive rose quartz: HRTEM and AEM investigations, 269
- MacDowell, A.A., see Manceau et al., 1494
- Makovicky, E., see Henriksen et al., 1273
- Majzlan, J., see Grevel et al., 397
- Malcherek, T., Zhang et al., 882
- Manceau, A., Tamura, N., Marcus, M.A., MacDowell, A.A., Celestre, R.S., Sublett, R.E., Sposito, G., and Padmore, H.A.: Deciphering Ni sequestration in soil ferromanganese nodules by combining X-ray fluorescence, absorption, and diffraction at micrometer scales of resolution, 1494
- Manceau, A., see Drits et al., 1646
- Manceau, A., see Lanson et al., 1631
- Manceau, A., see Lanson et al., 1662
- Mancini, F., Harlow, G.E., and Cahill, C.: The crystal structure and cation ordering of Phase-X-(K_{1-x-n})₂(Mg_{1-n}[Al,Cr]_n)₂Si₂O₇H₂: A potential K- and H-bearing phase in the mantle, 302
- Mandeville, C.W., Webster, J.D., Rutherford, M.J., Taylor, B.E., Timbal, A., and Faure, K.: Determination of molar absorptivities for infrared absorption bands of H₂O in andesitic glasses, 813
- Manning, C.E., see Ferry et al., 1342
- Manning, C.E., see Newton and Manning, 1401
- Maras, A., see Ballirano et al., 1139
- Marcus, M.A., see Manceau et al., 1494
- Marler, B. and Ertl, A.: Nuclear magnetic resonance and infrared spectroscopic study of excess-boron olenite from Koralpe, Styria, Austria, 364
- Marshall, W.G., see Friedrich et al., 931
- Marshall, W.G., see Welch et al., 154
- Martin, R.F., see Normand et al., 1699
- Martínez-Alonso, S., Rustad, J.R., and Goetz, A.F.H.: Ab initio quantum mechanical modeling of infrared vibrational frequencies of the OH group in dioctahedral phyllosilicates. Part I: Methods, results and comparison to experimental data, 1215
- Martínez-Alonso, S., Rustad, J.R., and Goetz, A.F.H.: Ab initio quantum mechanical modeling of infrared vibrational frequencies of the OH group in dioctahedral phyllosilicates. Part II: Main physical factors governing the OH vibrations, 1224
- Maruyama, S., see Ogasawara et al., 454
- Maruyama, S., see Ye et al., 875
- Mason, B.: *Mineralogical Tables*. By Hugo Strunz and Ernest H. Nickel, 1027
- Matas, J., see Fiquet et al., 1261
- Matsubara, S., see Hiroi et al., 160
- Matsukage, K., see Shirasaka et al., 922
- Mauri, F., see Balan et al., 1286
- Mavrocordatos, D. and Fortin D.: Quantitative characterization of biotic iron oxides by analytical electron microscopy, 940
- Mavrogenes, J.A., Berry, A.J., Newville, M., and Sutton, S.R.: Copper speciation in vapor-phase fluid inclusions from the Mole Granite, Australia, 1360
- Mayanovic, R.A., see Anderson et al., 262
- Mazzi, F., see Ballirano et al., 1139
- McCammon, C.A., Ballaran et al., 1490
- McCammon, C., see Krause et al., 726
- McCarty, D.K., see Bove et al., 1546
- McGee, J.J., see Hiroi et al., 160
- McIntosh, J.R., see Clemett et al., 1727
- McKay, D.S., see Clemett et al., 1727
- Meeker, G.P., see Bove et al., 1546
- Menchetti, S., Bindi, L., Bonazzi, P., and Olmi, F.: Disordered distribution of Cu in the crystal structure of leightonite, K₂Ca₂Cu(SO₄)₄·2H₂O, 721
- Meurer, W.P., see Claesson and Meurer, 699
- Meyer, H.-W., Carpenter, M.A., Becerro, A.I., and Seifert, F.: Hard-mode infrared spectroscopy of perovskites across the CaTiO₃-SrTiO₃ solid solution, 1291
- Miyawaki, R., see Hiroi et al., 160
- Montagnoli, M., see Comodi et al., 1164
- Montana, A.: Presentation of the Roebling Medal of the Mineralogical Society of America for 2001 to Peter John Wyllie, 788
- Mookherjee, M., Redfern, S.A.T., Zhang, M., and Harlov, D.E.: Orientational order-disorder of N(D,H)₄⁺ in tobelite, 1686
- Moore, D.M., see Grathoff and Moore, 1557
- Moore, G.M., see Hervig et al., 769
- Morphew, M., see Clemett et al., 1727
- Morse, S.A.: Memorial of Richard Edwin Stoiber, 1911–2001, 1024
- Morse, S.A.: *Rock-Forming Minerals Vol. 4a: Framework Silicates: Feldspars*. W.A. Deer, R.A. Howie, and J. Zussman, 1272
- Motoyoshi, Y., see Hiroi et al., 160
- Murotani, H., see Narita and Murotani, 1144
- Nabelek, P.I., see Wilke et al., 491
- Nadeau, P.H., Peacor, D.R., Yan, J., and Hillier, S.: I-S precipitation in pore space as the cause of geopressing in Mesozoic mudstones, Egersund Basin, Norwegian continental shelf, 1580
- Nagy, K.L., see Bickmore et al., 780
- Najorka, J., Gottschalk, M., and Heinrich, W.: Composition of synthetic tremolite-tschermakite solid solutions in amphibole + anorthite- and amphibole + zoisite-bearing assemblages, 462
- Nakano, S., Akai, J., and Sugaki, A.: Fluorite particles inducing butterfly aggregates of incipient microperthite in alkali feldspar from a syenite, the Patagonian Andes, southern Chile, 1377
- Narita, Y. and Murotani, H.: Submicrometer optical characterization of the grain boundary of optically active Cr³⁺ doped polycrystalline Al₂O₃ by near-field spectroscopy, 1144
- Navrotsky, A., see Grevel et al., 397
- Nekvasil, H., see Liu and Nekvasil, 339
- Nesbitt, H.W., Uhlig, I., and Szargan, R.: Surface reconstruction and As-polymerization at fractured loellingite (FeAs₂) surfaces, 1000
- Nesbitt, H.W., see Jones and Nesbitt, 1692
- Nestola, F., see Tribaudino et al., 648
- Neuhoff, P.S., Kroeker, S., Du, L.-S., Fridriksson, T., and Stebbins, J.F.: Order/disorder in natrolite group zeolites: A ²⁹Si and ²⁷Al MAS NMR study, 1307
- Newton, R.C. and Manning, C.E.: Experimental determination of calcite solubility in H₂O-NaCl solutions at deep crust/upper mantle pressures and temperatures: Implications for metasomatic processes in shear zones, 1401
- Newton, R.C., see Ferry et al., 1342
- Newville, M., see Mavrogenes et al., 1360
- Nieto, F.: Characterization of coexisting NH₄ and K-micas in very low-grade metapelites, 205
- Nijland, T.G., see Harlov et al., 245
- Nilges, M.J., see Chen et al., 47
- Nilges, M.J., see Pan et al., 1333
- Nishihara, Y., see Shirasaka et al., 922
- Nishiyama, N., see Ono et al., 99
- Nissen, C., see Henriksen et al., 1273
- Normand, C., Williams-Jones, A.E., Martin, R.F., and Vali, H.: Hydrothermal alteration of olivine in a flow-through autoclave: Nucleation and growth of serpentine phases, 1699
- Nowak, M., see Berndt et al., 1717
- Nowak, M., see Sierralta et al., 1710
- Oberti, R., Ventura, G.D., Ottolini, L., Hawthorne, F.C., and Bonazzi, P.: Re-definition, nomenclature and crystal-

- chemistry of the hellandite group, 745
- Oberti, R., see Caballero et al., 976
- Oberti, R., see Ventura et al., 739
- Ogasawara, Y., Fukasawa, K., and Maruyama, S.: Coesite exsolution from supersilicic titanite in UHP marble from the Kokchetav Massif, northern Kazakhstan, 454
- Ohfuji, H. and Akai, J.: Icosahedral domain structure of framboidal pyrite, 176
- Omori, S., see Ye et al., 875
- Ono, S., Hirose, K., Nishiyama, N. and Isshiki, M.: Phase boundary between rutile-type and CaCl_2 -type germanium dioxide determined by in situ X-ray observations, 99
- Olmi, F., see Menchetti et al., 721
- Ondrus, P., Skála, R., Císařová, I., Veselovský, F., Frýda, J., and Čejka, J.: Description and crystal structure of vajdakite, $[(\text{Mo}^{6+}\text{O}_2)_2(\text{H}_2\text{O})_2\text{As}^{3+}_2\text{O}_5] \cdot \text{H}_2\text{O}$ —a new mineral from Jáchymov, Czech Republic, 983
- Ono, S., Suto, T., Hirose, K., Kuwayama, Y., Komabayashi, T., and Kikegawa, T.: Equation of state of Al-bearing stishovite to 40 GPa at 300 K, 1486
- Origlieri, M., see Lager et al., 642
- Ottolini, L., Cámara, F., Hawthorne, F.C., and Stirling, J.: SIMS matrix effects in the analysis of light elements in silicate minerals: Comparison with SREF and EMPA data, 1477
- Ottolini, L., see Caballero et al., 976
- Ottolini, L., see Cámara et al., 1437
- Ottolini, L., see Oberti et al., 745
- Ottolini, L., see Ventura et al., 739
- Paar, W.H., see Effenberger et al., 753
- Padmore, H.A., see Manceau et al., 1494
- Paktunc, A.D. and Davé, N.K.: Formation of secondary pyrite and carbonate minerals in the Lower Williams Lake tailings basin, Elliot Lake, Ontario, Canada, 593
- Pal'yanov, Y.N., Sokol, A.G., Borzdov, Y.M., Khokhryakov, A.F., and Sobolev, N.V.: Diamond formation through carbonate-silicate interaction, 1009
- Pan, Y.: Comments on: Higgins: "Closure in crystal size distributions (CSD), verification of CSD calculations, and the significance of CSD fans," 1242
- Pan, Y., Chen, N., Weil, J.A., and Nilges, M.J.: Electron paramagnetic resonance spectroscopic study of synthetic fluorapatite: Part III. Structural characterization of sub-ppm-level Gd and Mn in minerals at W-band frequency, 1333
- Pan, Y., see Chen et al., 37
- Pan, Y., see Chen et al., 47
- Pankrath, R. and Langer, K.: Molecular water in beryl, $^{\text{VI}}\text{Al}_2[\text{Be}_3\text{Si}_6\text{O}_{18}] \cdot n\text{H}_2\text{O}$, as a function of pressure and temperature: An experimental study, 238
- Papike, J.J., see Aramovich et al., 1351
- Papike, J.J.: see Prewitt et al., 1514
- Parise, J.B., see Piotrowski et al., 715
- Parise, J.B., see Zhang et al., 566
- Parthasarathy, G., Chetty, T.R.K., and Haggerty, S.E.: Thermal stability and spectroscopic studies of zemkorite: A carbonate from the Venkatampalle kimberlite of southern India, 1384
- Pawley, A.R., Clark, S.M., and Chinnery, N.J.: Equation of state measurements of chlorite, pyrophyllite, and talc, 1172
- Peacock, S.M., see Hervig et al., 769
- Peacor, D.R., see Hiroi et al., 160
- Peacor, D.R., see Nadeau et al., 1580
- Perkins, D.: *Earth's Materials: Minerals and Rocks*. By Gautam Sen, 803
- Pertermann, M. and Hirschmann, M.M.: Trace-element partitioning between vacancy-rich eclogitic clinopyroxene and silicate melt, 1365
- Pevear, D.R., see Ylagan et al., 1536
- Pichavant, M., see Gaillard et al., 829
- Piotrowski, A., Kahlenberg, V., Fischer, R.X., Lee, Y., and Parise, J.B.: The crystal structures of cesanite and its synthetic analogue—A comparison, 715
- Plançon, A.: New modeling of X-ray diffraction by disordered lamellar structures, such as phyllosilicates, 1672
- Plançon, A., see Lanson et al., 1631
- Polekhovskiy, Yuri S., see Britvin et al., 1245
- Pósfai, M., see Dódony et al., 1443
- Post, J.: Acceptance of the Mineralogical Society of America's Public Service Medal for 2001, 798
- Prewitt, C.T., see Dera et al., 1018
- Prewitt, C.T., Papike, J.J., and Brown, G.E. Jr.: Memorial for Shigeo Sueno, 1937–2001, 1514
- Princivalle, F., see Andreozzi and Princivalle, 838
- Prost, R., see Diaz et al., 1207
- Quartieri, S., see Ballone et al., 1194
- Quartieri, S., see Ferro et al., 1415
- Rakovan, J. and Jaszczak, J.A.: Multiple length scale growth spirals on metamorphic graphite {001} surfaces studied by atomic force microscopy, 17
- Redfern, S.A.T., see Mookherjee et al., 1686
- Redhammer, G.J. and Roth, G.: Single-crystal structure refinements and crystal chemistry of synthetic trioctahedral micas $\text{KM}_3(\text{Al}^{3+}, \text{Si}^{4+})_3\text{O}_{10}(\text{OH})_2$, where $\text{M} = \text{Ni}^{2+}, \text{Mg}^{2+}, \text{Co}^{2+}, \text{Fe}^{2+}$, or Al^{3+} , 1464
- Reynard, B., see Gillet et al., 312
- Reynolds, R.C. Jr. and Bish, D.L.: The effects of grinding on the structure of a low-defect kaolinite, 1626
- Reznitskii, R.Z., see Secco et al., 709
- Righter, M.K., Dyar, D., Delaney, J.S., Vennemann, T.W., Hervig, R.L., and King, P.L.: Correlations of octahedral cations with OH^- , O^{2-} , Cl^- , and F^- in biotite from volcanic rocks and xenoliths, 142
- Roberts, A.C., see Jambor and Roberts, 181
- Roberts, A.C., see Jambor and Roberts, 355
- Roberts, A.C., see Jambor and Roberts, 996
- Roberts, A.C., see Jambor and Roberts, 1509
- Roberts, A.C., see Jambor and Roberts, 1731
- Rodehorst, U., Geiger, C.A., and Armbruster, T.: The crystal structures of grossular and spessartine between 100 and 600 K and the crystal chemistry of grossular-spessartine solid solutions, 542
- Roden, M.F., see Schroeder et al., 1616
- Rodrigues, E., see Hovis et al., 523
- Roggensack, K., see Hervig et al., 769
- Romanek, C.S., see Clemett et al., 1727
- Rosenberg, P.E.: The nature, formation, and stability of end-member illite: A hypothesis, 103
- Ross, N.J., see Crichton and Ross, 333
- Ross, N.L., see Welch et al., 154
- Rossmann, G.R.: Acceptance of the Dana Medal of the Mineralogical Society of America for 2001, 801
- Ross, N.L., Chaplin, T.D., and Welch, M.D.: Compressibility of stottite, $\text{FeGe}(\text{OH})_6$: An octahedral framework with protonated O atoms, 1410
- Rossmann, G.R., see Arredondo and Rossmann, 307
- Rossmann, G.R., see Kent and Rossmann, 1432
- Rossmann, G.R., see Johnson et al., 899
- Rossmann, G.R., see Ma et al., 269
- Rossmann, G.R., see Taran and Rossmann, 1148
- Roth, G., see Redhammer and Roth, 1464
- Rouse, R.C., see Hiroi et al., 160

- Roux, J., see Hovis et al., 523
 Rubie, D.C., see Bolfan-Casanova, 603
 Rudashevsky, N.S., see Britvin et al., 1245
 Rustad, J.R., see Martínez-Alonso et al., 1215
 Rustad, J.R., see Martínez-Alonso et al., 1224
 Rutherford, M.J., see Mandeville et al., 813
 Ryan, P.C. and Hillier, S.: Berthierine/chamosite, corrensite, and discrete chlorite from evolved verdine and evaporite-associated facies in the Jurassic Sundance Formation, Wyoming, 1607
- Sabioni, A.C.S., see Eeckhout et al., 1297
 Sainz-Díaz, C.I., Timón, V., Botella, V., Artacho, E., and Hernández-Laguna, A.: Quantum mechanical calculations of dioctahedral 2:1 phyllosilicates: Effect of octahedral cation distributions in pyrophyllite, illite, and smectite, 958
 Saitta, A.M., see Balan et al., 1286
 Sakharov, B.A., see Drits et al., 1590
 Salje, E.K.H., Zhang et al., 882
 Salyn, A.L., see Drits et al., 1590
 Sánchez-Navas, A., see Cesare et al., 433
 Sandlin, P.E., see Bickmore et al., 780
 Sani, A., see Ballone et al., 1194
 Sautter, V., see Gillet et al., 312
 Scaillet, B., see Gaillard et al., 829
 Schmidt, C., see Veksler et al., 775
 Schmücker, M., Hildmann, B., and Schneider, H.: Mechanism of 2/1- to 3/2-mullite transformation at 1650 °C, 1190
 Schneider, H., see Schmücker et al., 1190
 Schreyer, W., see Christy et al., 1104
 Schroeder, P.A., Le Golvan, J.J., and Roden, M.F.: Weathering of ilmenite from granite and chlorite schist in the Georgia Piedmont, 1616
 Seal, R.R., II, see Chou et al., 108
 Secco, L., Martignago, F., Dal Negro, A., Reznitskii, R.Z., and Sklyarov, E.V.: Crystal chemistry of Cr³⁺-V³⁺-rich clinopyroxenes, 709
 Seifert, F., see Meyer et al., 1291
 Selverstone, J., see Cavosie et al., 417
 Sharp, Z.D., see Cavosie et al., 417
 Sharp, T.G., see Xie et al., 1257
 Shaw, S., Henderson, C.M.B., and Clark, S.M.: In-situ synchrotron study of the kinetics, thermodynamics, and reaction mechanisms of the hydrothermal crystallization of gyrolite Ca₁₆Si₂₄O₆₀(OH)₈·14H₂O, 533
 Shibasaki, H., see Hiroi et al., 160
 Shim, H.S. and Duffy, T.S.: Raman spectroscopy of Fe₂O₃ to 62 GPa, 318
 Shimmin, J., see Clemett et al., 1727
 Shirasaka, M., Takahashi, E., Nishihara, Y., Matsukage, K., and Kikegawa, T.: In situ X-ray observation of the reaction dolomite = aragonite + magnesite at 900–1300 K, 922
 Shau, Y.H., see Zhang et al., 867
 Shu, J.F., see Zhang et al., 455
 Sierralta, M., Nowak, M., and Keppler, H.: The influence of bulk composition on the diffusivity of carbon dioxide in Na aluminosilicate melts, 1710
 Silvester, E., see Lanson et al., 1631
 Skála, R., see Ondruš et al., 983
 Sklyarov, E.V., see Secco et al., 709
 Slesinger, A.E., see Kohn et al., 293
 Smirnov, A., see Xirouchakis et al., 658
 Sobolev, N.V., see Pal'yanov et al., 1009
 Sokol, A.G., see Pal'yanov et al., 1009
 Soldatov, A.V., see Farrell et al., 1321
 Sposito, G.: *Environmental Mineralogy: Microbial Interactions, Anthropogenic Influences, Contaminated Land, And Waste Management*. J.D. Cotter-Howells, L.S. Campbell, E. Valsami-Jones, and M. Batchelder, Eds., 592
 Sposito, G., see Manceau et al., 1494
 Srodoń, J., Clauer, N., and Eberl, D.D.D.: Interpretation of K-Ar dates of illitic clays from sedimentary rocks aided by modeling, 1528
 Stebbins, J.F. and Du, L.S.: Chloride ion sites in silicate and aluminosilicate glasses: a preliminary study by ³⁵Cl solid-state NMR, 359
 Stebbins, J.F., see Neuhoff et al., 1307
 Stekhin, I.E., see Farrell et al., 1321
 Stipp, S.L.S., see Henriksen and Stipp, 5
 Stipp, S.L.S., see Henriksen et al., 1273
 Stirling, J., see Ottolini et al., 1477
 Stoddard, E.F.: *Optical Crystallography*. By F. Donald Bloss, 368
 Stucki, J.W. see Fialips et al., 630
 Stølen, S., see Fjellvåg et al., 347
 Su, S.C., see Hiroi et al., 160
 Sublett, R.E., see Manceau et al., 1494
 Sugaki, A., see Nakano et al., 1377
 Suto, T., see Ono et al., 1486
 Sutton, S.R., see Dyar et al., 1500
 Sutton, S.R., see Mavrogenes et al., 1360
 Swope, R. J., see Jakubowski et al., 1029
 Szargan, R., see Nesbitt et al., 1000
- Tabacchi, G., see Ferro et al., 1415
 Tabira, Y., see Christy et al., 1104
 Takahashi, E., see Shirasaka et al., 922
 Tamura, N., see Manceau et al., 1494
 Taran, M.N. and Rossman, G.R.: High-temperature, high-pressure optical spectroscopic study of ferric-iron-bearing tourmaline, 1148
 Taylor, B.E., see Mandeville et al., 813
 Thomas, J.B. and Bodnar, R.J.: A technique for mounting and polishing melt inclusions in small (<1 mm) crystals, 1505
 Thomas, R.: Determination of the H₃BO₃ concentration in fluid and melt inclusions in granite pegmatites by laser Raman microprobe spectroscopy, 56
 Thomas, R., see Veksler et al., 775
 Thomas-Keppta, K.L., see Clemett et al., 1727
 Timbal, A., see Mandeville et al., 813
 Timón, V., see Sainz-Díaz et al., 958
 Tomioka, N., see Xie et al., 1257
 Topa, D., see Effenberger et al., 753
 Toplis, M.J., see Kubicki and Toplis, 668
 Totten, M.W., Hanan, M.A., Knight, D., and Borges, J.: Characteristics of mixed-layer smectite/illite density separates during burial diagenesis, 1571
 Tracy, R.J., see Beard and Tracy, 690
 Tribaudino, M., Nestola, F., Cámara, F., and Domeneghetti, M.C.: The high-temperature P₂/c-C2/c phase transition in Fe-free pyroxene (Ca_{0.15}Mg_{1.85}Si₂O₆): Structural and thermodynamic behavior, 648
 Uchida, T., see Zhang et al., 1005
 Uhlig, I., see Nesbitt et al., 1000
 Ulmer, P., see Friedrich et al., 931
 Ulmer, P., see Haefner et al., 822
 Ungaretti, L., see Ballirano et al., 1139
 Usui, A., see Bilinski et al., 580
 Usuki, T.: Anisotropic Fe-Mg diffusion in biotite, 1014
- Vali, H., see Clemett et al., 1727
 Vali, H. see Normand et al., 1699
 Valley, J.W., see Johnson et al., 899
 Vasconcelos, D.C.L., see Eeckhout et al., 1297
 Veksler, I.V., Thomas, R., and Schmidt, C.: Experimental evidence of three coexisting immiscible fluids in synthetic granitic pegmatite, 775
 Vennemann, T.W., see King et al., 1077
 Vennemann, T.W., see Richter et al., 142
 Ventura, G.D., Bonazzi, P., Oberti, R., and Ottolini, L.: Ciprianiite and mottanaite-(Ce), two new minerals of the hellandite group from Latium (Italy), 739
 Ventura, G.D., see Oberti et al., 745
 Verkouteren, J.R., and Wylie, A.G.: Anoma-

- lous optical properties of fibrous tremolite, actinolite, and ferro-actinolite, 1090
- Verma, P.K., see Walker et al., 805
- Veselovský, F., see Ondruš et al., 983
- Vezzalini, G., see Ballone et al., 1194
- Vezzalini, G., see Ferro et al., 1415
- Viani, A., Gualtieri, A.F., and Artioli, G.: The nature of disorder in montmorillonite by simulation of X-ray powder patterns, 966
- Virlet, J., see Imbach et al., 947
- Vočadlo, L., see Dobson et al., 784
- Vochten, R., see de Grave et al., 132
- Vogt, T., see Fjellvåg et al., 347
- Vrolijk, P.J., see Ylagan et al., 1536
- Walker, D., Cranswick, L.M.D., Verma, P.K., Clark, S.M., and Buhre, S.: Thermal equations of state for B1 and B2 KCl, 805
- Wang, G., see Luck and Wang, 350
- Wang, L., see Zhang et al., 1005
- Waters, D.J. and Charnley, N.R.: Local equilibrium in polymetamorphic gneiss and the titanium substitution in biotite, 383
- Webster, J.D. and De Vivo, B.: Experimental and modeled solubilities of chlorine in aluminosilicate melts, consequences of magma evolution, and implications for exsolution of hydrous chloride melt at Mt. Somma-Vesuvius, 1046
- Webster, J.D., see Mandeville et al., 813
- Weidner, D.J., see Zhang et al., 1005
- Weil, J.A., see Chen et al., 37
- Weil, J.A., see Chen et al., 47
- Weil, J.A., see Pan et al., 1333
- Welch, M.D., Marshall, W.G., Ross, N.L., and Knight, K.S.: H positions in leucophoenicite, $Mn_7Si_3O_{12}(OH)_2$: A close relative of the hydrous B phases, 154
- Welch, S., see Jakubowski et al., 1029
- Welch, M.D., see Ross et al., 1410
- Wells, M.L., see Hoisch et al., 115
- Wentworth, S.J., see Clemett et al., 1727
- Wharton, D., see Klopogge et al., 623
- Whitney, D.L.: Coexisting andalusite, kyanite, and sillimanite: Sequential formation of three Al_2SiO_5 polymorphs during progressive metamorphism near the triple point, Sivrihisar, Turkey, 405
- Wilke, M., Nabelek, P.I., and Glascock, M.D.: B and Li in Proterozoic metapelites from the Black Hills, U.S.A.: Implications for the origin of leucogranitic magmas, 491
- Williams, L.B. and Hervig, R.L.: Exploring intra-crystalline B-isotope variations in mixed-layer illite-smectite, 1564
- Williams, L.B., see Hervig et al., 769
- Williams, S., see Zhang et al., 861
- Williams-Jones, A.E., see Normand et al., 1699
- Wood, B.J., see Kohn et al., 293
- Wood, I.G., see see Dobson et al., 784
- Woody, K., see Xirouchakis et al., 658
- Wu, J., see Fialips et al., 630
- Wylie, A.G., see Verkouteren and Wylie, 1090
- Wyllie, P.J., Acceptance of the Roebling Medal of the Mineralogical Society of America for 2001, 790
- Xie, Z., Tomioka, N., and Sharp, T.G.: Natural occurrence of Fe_2SiO_4 -spinel in the shocked Umbarger L6 chondrite, 1257
- Xinmin, M., see Hanlie et al., 1
- Xirouchakis, D., Smirnov, A., Woody, K., Lindsley, D.H., and Andersen, D.J.: Thermodynamics and stability of pseudobrookite-type $MgTi_2O_5$ (karrooite), 658
- Xu, H., see Zhang et al., 566
- Xu, J.-A., see Zhang et al., 1005
- Xu, P., see Ye et al., 875
- Yamanaka, T., Hirai, N., and Komatsu, Y.: Structure change of $Ca_{1-x}Sr_xTiO_3$ perovskite with composition and pressure, 1183
- Yan, L., see Fialips et al., 630
- Yan, J., see Nadeau et al., 1580
- Yates, M.G., see Barbier et al., 501
- Ye, D.-N., see Ye et al., 875
- Ye, K., Liu, J.-B., Cong, B.-L., Ye, D.-N., Xu, P., Omori, S., and Maruyama, S.: Ultrahigh-pressure (UHP) low-Al titanites from carbonate-bearing rocks in Dabieshan-Sulu UHP terrane, eastern China, 875
- Ylagan, R.F., Kim, C.S., Pevear, D.R., and Vrolijk, P.J.: Illite polytype quantification for accurate K-Ar age determination, 1536
- Yokoyama, K., see Hiroi et al., 160
- Zanazzi, P.F., see Comodi et al., 1164
- Zhang, J. Celestian, A., Parise, J.B., Xu, H., and Heaney, P.J.: A new polymorph of eucryptite ($LiAlSiO_4$), ϵ -eucryptite, and thermal expansion of α - and ϵ -eucryptite at high pressure, 566
- Zhang, J., Wang, L., Weidner, D.J., Uchida, T., and Xu, J.-A.: The strength of moissanite, 1005
- Zhang, L., Ellis, D.J., and Jian, W.: Ultrahigh-pressure metamorphism in western Tianshan, China: Part I. Evidence from inclusions of coesite pseudomorphs in garnet and from quartz exsolution lamellae in omphacite in eclogites, 853
- Zhang, L., Ellis, D.J., Williams, S., and Jiang, W.: Ultra-high pressure metamorphism in western Tianshan, China: Part II. Evidence from magnesite in eclogite, 861
- Zhang, M., Salje, E.K.H., Bismayer, U., Groat, L.A., and Malcherek, T.: Metamictization and recrystallization of titanite: An infrared spectroscopic study, 882
- Zhang, M., see Mookherjee et al., 1686
- Zhang, R. Y., Liou, J.G., and Shu, J.F.: Hydroxyl-rich topaz in high-pressure and ultrahigh-pressure kyanite quartzites, with retrograde woodhouseite, from the Sulu terrane, eastern China, 455
- Zhang, R. Y., Shau, Y.H., Liou, J.G., and Lo, C.H.: Discovery of clinoenstatite in garnet pyroxenites from the Dabie-Sulu ultrahigh-pressure terrane, east-central China, 867
- Zhengyi, F., see Hanlie et al., 1
- Ziegenbein, D., see Berndt et al., 1717
- Zucali, M., see Camana et al., 1128