REFERENCES

Allred, A.L. (1961) Electronegativity values from thermochemical data. Journal of Inorganic and Nuclear Chemistry, 17, 215-221.

Anderson, O. (1915) The system anorthite-forsterite-silica. American Journal of Science, 39, 407-454.

Armstrong, J.T. (1988) Quantitative analysis of silicate and oxide materials: Comparison of Monte Carlo,z ZAF, and φ(ρz) procedures. In D.E. Newberry, Ed. Microbeam Analysis, p. 239-246. San Francisco Press.

Bagnall, K.W. (1957) Chemistry of the rare radioelements: polonium-actinium. 177 p. Academic Press Inc., New York.

Beattie, P. (1994) Systematics and energetics of trace-element partitioning between olivine and silicate melts: Implications for the nature of mineral/melt partitioning. Chemical Geology, 117, 57-71.

Beattie, P.D., Drake, M., Jones, J., Leeman, W., Longhi, J., McKay, G., Nielsen, R., Palme, H., Shaw, D., Takahashi, E., and Watson, B. (1993) Terminology for trace-element partitioning. Geochimica et Cosmochimica Acta, 57, 1605-1606.

Beaty, D.W., and Albee, A.L. (1980) Silica solid solution and zoning in natural plagioclase. American Mineralogist, 65, 63-74.

Beckett, J.R. (2002) Role of basicity and tetrahedral speciation in controlling the thermodynamic properties of silicate liquids, Part I: The system CaO-MgO-Al_2O_3-SiO_2. Geochimica et Cosmochimica Acta, 66, 93-107.

Beckett, J.R., and Stolper, E. (2000) The partitioning of Na between melilite and liquid; Part I, The role of crystal chemistry and liquid composition. Geochimica et Cosmochimica Acta, 64, 2509-2517.

Bedard, J.H. (2005) Partitioning coefficients between olivine and silicate melts. Lithos, 83, 394-419.

-. (2006) Trace element partitioning in plagioclase feldspar Geochimica et Cosmochimica Acta, 70, 3717-3742.

Berman, R.G. (1983) A thermodynamic model for multicomponent melts, with application to the system CaO-MgO-Al_2O_3-SiO_2. Ph.D. Thesis, University of British Columbia.

Berman, R.G., and Brown, T.H. (1984) A thermodynamic model for multicomponent melts, with application to the system CaO-Al_2O_3-SiO_2. Geochimica et Cosmochimica Acta, 48, 661-678.

-. (1987) Development of models for multicomponent melts: Analysis of synthetic systems. In I.S.E. Carmichael, and H.P. Eugster, Eds. Thermodynamic modeling of geological materials: minerals, fluids, and melts, 17, p. 405-442. Mineralogical Society of America.

Bindeman, I.N., and Davis, A.M. (2000) Trace element partitioning between plagioclase and melt: Investigation of dopant influence on partition behavior. Geochimica et Cosmochimica Acta, 64, 2863-2878.

Bindeman, I.N., Davis, A.M., and Drake, M.J. (1998) Ion microprobe study of plagioclase-basalt partition experiments at natural concentration levels of trace elements. Geochimica et Cosmochimica Acta, 62, 1175-1193.

Bindeman, I.N., Davis, A.M., and Wickham, S.M. (1999) 400 my of basic magmatism in a single lithospheric block during cratonization: Ion microprobe study of plagioclase megacrysts in mafic rocks from Transbaikalia, Russia. Journal of Petrology, 40, 807-830.

Blundy, J., and Dalton, J. (2000) Experimental comparison of trace element partitioning between clinopyroxene and melt in carbonate and silicate systems, and implications for mantle metasomatism. Contributions to Mineralogy and Petrology, 139, 356-371.

Blundy, J., and Wood, B. (1994) Prediction of crystal-melt partition coefficients from elastic moduli. Nature, 372, 452-454.

-. (2003a) Mineral-melt partitioning of uranium, thorium and their daughters. In B. Bourdon, G.M. Henderson, C.C. Lundstrom, and S.P. Turner, Eds. Uranium-series geochemistry, 52, p. 59-123. Mineralogical Society of America.

-. (2003b) Partitioning of trace elements between crystals and melts. Earth and Planetary Science Letters, 210, 383-397.

Blundy, J.D., Falloon, T.J., Wood, B.J., and Dalton, J.A. (1995) Sodium partitioning between clinopyroxene and silicate melts. Journal of Geophysical Research, 100, 15,501-15,515.

Blundy, J.D., and Shimizu, N. (1991) Trace element evidence for plagioclase recycling in calc-alkaline magmas. Earth and Planetary Science Letters, 102, 178-197.

Blundy, J.D., and Wood, B.J. (1991) Crystal-chemical controls on the partitioning of Sr and Ba between plagioclase feldspar, silicate melts, and hydrothermal solutions. Geochimica et Cosmochimica Acta 55, 193–209.

Blundy, J.D., Wood, B.J., and Davies, A. (1996) Thermodynamics of rare earth element partitioning between clinopyroxene and melt in the system CaO-MgO-Al2O3-SiO2. Geochimica et Cosmochimica Acta, 60, 359-364.

Bocanegra, R., and Hopke, P.K. (1988) Radon adsorption on activated carbon and the effect of some airborne contaminants. The Science of the Total Environment, 76, 193-202.

Bouissieres, G. (1958) Radium. In P. Pascal, Ed. Nouveau traite de chimie minerale, IV, p. 931-955. Masson et Cie, Paris.

Brenan, J.M., Shaw, H.F., Ryerson, F.J., and Phinney, D.L. (1995) Mineral-aqueous fluid partitioning of trace elements at 900°C and 2.0GPa: Constraints on the trace element chemistry of mantle and deep crustal fluids. Geochimica et Cosmochimica Acta, 59, 3331-3350.

Brice, J.C. (1975) Some thermodynamic aspects of the growth of strained crystals. Journal of Crystal Growth, 28, 249-253.

Bruno, E., and Facchinelli, A. (1974) Experimental studies on anorthite crystallization along the join $CaAl_2Si_2O_8$-SiO_2. Bulletin de la Société Française de Minéralogie et de Cristallographie 97, 422-432.

-. (1975) Crystal-chemical interpretation of crystallographic anomalies in lunar plagioclases. Bulletin de la Société Française de Minéralogie et de Cristallographie 98, 113-117.

Bryan, W.B. (1974) Fe-Mg relationships in sector-zoned submarine basalt plagioclase. Earth and Planetary Science Letters, 24, 157-165.

Cherniak, D.J. (2002) Ba diffusion in feldspar. Geochimica et Cosmochimica Acta, 66, 1641-1650.

Colson, R.O., and Gust, D. (1989) Effects of pressure on partitioning of trace elements between low-Ca pyroxene and melt. American Mineralogist, 74, 31-36.

Condomines, M., Gauthier, P.-J., and Sigmarsson, O. (2003) Timescales of magma chamber processes and dating of young volcanic rocks. In B. Bourdon, G.M. Henderson, C.C. Lundstrom, and S.P. Turner, Eds. Uranium-Series Geochemistry, 52, p. 125-174. Mineralogical Society of America.

Condomines, M., Gauthier, P.J., Tanguy, J.C., Gertisser, R., Thouret, J.C., Berthommier, P., and Camus, G. (2005) ^{226}Ra or ^{226}Ra/Ba dating of Holocene volcanic rocks: application to Mt. Etna and Merapi volcanoes. Earth and Planetary Science Letters, 230, 289-300.

Condomines, M., Tanguy, J.-C., and Michaud, V. (1995) Magma dynamics at Mt. Etna: constraints from U-Th-Ra-Pb radioactive disequilibria and Sr isotopes in historical lavas. Earth and Planetary Science Letters, 132, 25-41.

Cooper, K.M., Goldstein, S.J., Sims, K.W.W., and Murrell, M.T. (2003) Uranium-series chronology of Gorda Ridge volcanism: new evidence from the 1996 eruption. Earth and Planetary Science Letters, 206, 459-475.

Cooper, K.M., and Reid, M.R. (2003) Re-examination of crystal ages in recent Mount St. Helens lavas: Implications for magma reservoir processes. Earth and Planetary Science Letters, 213, 149-167.

Cooper, K.M., Reid, M.R., Murrell, M.T., and Clague, D.A. (2001) Crystal and magma residence at Kilauea Volcano, Hawaii: ^{230}Th-^{226}Ra dating of the 1955 east rift eruption. Earth and Planetary Science Letters, 184, 703-718.

CRC. (1993-1994) CRC Handbook of Chemistry and Physics. CRC Press, Cleveland, OH.

Davies, R.H., Dinsdale, A.T., Chart, T.G., Barry, T.I., and Rand, M.H. (1990) Application of MTDATA to the modeling of multicomponent equilibria. High Temperature Science, 26, 251-262.

Davis, A.M., Hashimoto, A., and Parsad, N. (1999) Trace element fractionation during evaporation in reducing atmospheres. Lunar and Planetary Science Conference, XXX, Houston, TX.

De Capitani, C., and Brown, T.H. (1987) The computation of chemical equilibrium in complex systems containing non-ideal solutions. Geochimica et Cosmochimica Acta, 51, 2639-2652.

DeVries, R.C., and Osborn, E.F. (1957) Phase equlibria in high-alumina part of the system CaO-MgO-Al_2O_3-SiO_2. Journal of the American Ceramic Society, 40, 6-15.

Drake, M.J. (1976) Plagioclase-melt equilibria. Geochimica et Cosmochimica Acta, 40, 457-465.

Drake, M.J., and Weill, D.F. (1975) Partition of Sr, Ba, Ca, Y, Eu^{2+}, Eu^{3+}, and other REE between plagioclase feldspar and magmatic liquid: An experimental study. Geochimica et Cosmochimica Acta, 39, 689-712.

Dufek, J., and Cooper, K.M. (2005) ^{226}Ra/^{230}Th excess generated in the lower crust: Implications for magma transport and storage time scales. Geology, 33, 833-836.

Duffy, J.A. (1993) A review of optical basicity and its application to oxidic systems. Geochimica et Cosmochimica Acta, 57, 3961-3970.

Eugster, O., Armstrong, J.T., and Wasserburg, G.J. (1985) Identification of isobaric interferences-a computer-program for ion microprobe mass-spectral data. International Journal of Mass Spectrometry of Ion Proceedings, 66, 291-312.

Feineman, M.D., and DePaolo, D.J. (2003) Steady-state $^{226}Ra/^{230}Th$ disequilibrium in mantle minerals: Implications for melt transport rates in island arcs. Earth and Planetary Science Letters, 215, 339-355.

Fiske, P.S., and Stebbins, J.F. (1994) The structural role of Mg in silicate liquids: A high-temperature ^{25}Mg, ^{22}Na, and ^{29}Si NMR study. American Mineralogist, 79, 848-861.

Fujinawa, A., and Green, T.H. (1997) Experimental study of partitioning of Hf and Zr between amphibole, clinopyroxene, garnet, and silicate melts. Journal of Mineralogy, Petrology and Economic Geology, 92, 69-89.

Gaetani, G. (2004) The influence of melt structure on trace element partitioning near the peridotite solidus. Contributions to Mineralogy and Petrology, 147, 511-527.

Geake, J.E., Walker, G., Telfer, D.J., Mills, A.A., and Garlick, G.F.J. (1973) Luminescence of lunar, terrestrial, and synthesized plagioclase, caused by Mn^{2+} and Fe^{3+}. Proceedings of the Fourth Lunar and Planetary Science Conference, 3, p. 3181-3189, Houston, TX.

George, A.M., and Stebbins, J.F. (1998) Structure and dynamics of magnesium in silicate melts: A high-temperature ^{25}Mg NMR study. American Mineralogist, 83, 1022-1029.

Ghiorso, M.S., and Sack, R.O. (1995) Chemical mass transfer in magmatic processes IV. A revised and internally consistent thermodynamical model for the interpolation and extrapolation of liquid-solid equilibria in magmatic systems at elevated temperatures and pressures. Contributions to Mineralogy and Petrology, 119, 197-212.

Gibb, F.G.F. (1974) Supercooling and the crystallization of plagioclase from a basaltic magma. Mineralogical Magazine, 39, 641-653.

Giletti, B.J., and Casserly, J.E.D. (1994) Strontium diffusion kinetics in plagioclase feldspars. Geochimica et Cosmochimica Acta, 58, 3785-3793.

Gotze, J. (1998) Investigation of lunar plagioclases by cathodoluminescence microscopy and spectroscopy. GSA Abstracts with Programs, p. A-60.

Gotze, J., Krbetschek, M.R., Habermann, D., and Wolf, D. (2000) High-resolution cathodoluminescence of feldspar minerals. In M. Pagel, V. Barbin, P. Blanc, and D. Ohnenstetter, Eds. Cathodoluminescence in Geosciences, p. 245-270. Springer-Verlag, Berlin, Heidelberg, New York, Tokyo.

Halter, W.E., and Mysen, B.O. (2004) Melt speciation in the system Na_2O-SiO_2. Chemical Geology, 213, 115-123.

Hashimoto, A. (1992) The effect of H_2O gas on volatilities of planet-forming major elements: I. Experimental determination of thermodynamic properties of Ca-, Al-, and Si-hydroxide gas molecules and its application to the solar nebula. Geochimica et Cosmochimica Acta, 56, 511-532.

Hess, P.C. (1995) Thermodynamic mixing properties and the structure of silicate melts. In J.F. Stebbins, P.F. McMillan, and D.B. Dingwell, Eds. Structure, Dynamics

and Properties of Silicate Melts, 32, p. 145-189. Mineralogical Society of America.

Higuchi, H., and Nagasawa, H. (1969) Partition of trace elements between rock-forming minerals and the host volcanic rocks. Earth and Planetary Science Letters, 7, 281-287.

Hill, E., Wood, B.J., and Blundy, J.D. (2000) The effect of Ca-Tschermaks component on trace element partitioning between clinopyroxene and silicate melt. Lithos, 53, 203-215.

Hirschmann, M.M., and Ghiorso, M.S. (1994) Activities of nickel, cobalt, and manganese silicates in magmatic liquids and applications to olivine/liquid and to silicate/metal partitioning. Geochimica et Cosmochimica Acta, 58, 4109-4126.

Hutcheon, I.D., Steele, I.M., Smith, J.V., and Clayton, R.N. (1978) Ion microprobe, electron microprobe and cathodoluminescence data for Allende inclusions with emphasis on plagioclase chemistry. Proceedings of the Ninth Lunar and Planetary Science Conference, 2, p. 1345-1368, Houston, TX.

Ito, J. (1976) High temperature solvent growth of anorthite on the join $CaAl_2Si_2O_8$-SiO_2. Contributions to Mineralogy and Petrology, 59, 187-194.

Johnson, M., Benziger, J., C., S., F., C., M., C., Darton, N., F., L., and Vogelaar, R.B. (1998) A ^{222}Rn source for low-background liquid scintillation detectors. Nuclear Instruments and Methods in Physics Research Section A, 414, 459-465.

Kimata, M., Nishida, N., Shimizu, M., Saito, S., Matsui, T., and Arakawa, Y. (1995) Anorthite megacrysts from island arc basalts. Mineralogical Magazine, 59, 1-14.

Kinzler, R.J., Grove, T.L., and Recca, S.I. (1990) An experimental study on the effect of temperature and melt composition on the partitioning of nickel between olivine and silicate melt. Geochimica et Cosmochimica Acta, 54, 1255-1265.

Kirkpatrick, R.J. (1974) Kinetics of crystal growth in the system $CaMgSi_2O_6$-$CaAl_2SiO_6$. American Journal of Science, 274, 215-242.

Klein, L., and Uhlmann, D.R. (1974) Crystallization behavior of anorthite. Journal of Geophysical Research, 79, 4869-4874.

Kohn, S.C., and Schofield, P.F. (1994) The importance of melt composition in controlling trace-element behavior: An experimental study of Mn and Zn partitioning between forsterite and silicate melts. Chemical Geology, 117, 73-87.

Kremser, D.T. Advanced Topics in Probe for Windows. Probe for Windows (32 bit) v. 5.35.

Kushiro, I., and Walter, M.J. (1998) Mg-Fe partitioning between olivine and mafic-ultramafic melts. Geophysical Research Letters, 25, 2337-2340.

Lange, R.L., and Carmichael, I.S.E. (1990) Thermodynamic properties of silicate liquids with emphasis on density, thermal expansion and compressibility. In J. Nicholls, and J.K. Russell, Eds. Modern Methods of Igneous Petrology: Understanding Magmatic Processes, 24. Mineralogical Society of America.

LaTourrette, T. (1993) Experimental determination of U and Th partitioning between clinopyroxene, garnet, olivine, and natural and synthetic silicate melt. Division of Geological and Planetary Sciences, p. 373. California Institute of Technology, Pasadena, CA.

LaTourrette, T., and Wasserburg, G.J. (1998) Mg diffusion in anorthite: Implications for the formation of early solar system planetesimals. Earth and Planetary Science Letters, 158, 91-108.

Libourel, G. (1999) Systematics of calcium partitioning between olivine and silicate melts: Implications for melt structure and calcium content of magmatic olivines. Contributions to Mineralogy and Petrology, 136, 63-80.

Libourel, G., Geiger, C.A., Merwin, L., and Sebald, A. (1992) 29Si and 27Al MAS-NMR spectroscopy of glasses in the system $CaSiO_3$-$MgSiO_3$-Al_2O_3. Chemical Geology, 96, 387-397.

Linnen, R.L., and Keppler, H. (2002) Melt composition control of Zr/Hf fractionation in magmatic processes. Geochimica et Cosmochimica Acta, 66, 3293-3301.

Lofgren, G. (1974a) An experimental study of plagioclase crystal morphology: Isothermal crystallization. American Journal of Science, 274, 243-273.

-. (1974b) Temperature induced zoning in synthetic plagioclase feldspar. In W.S. Mackenzie, and J. Zussmann, Eds. The Feldspars, p. 362-375. Manchester University Press, Manchester.

Longhi, J., and Hays, J.F. (1979) Phase equilibria and solid solution along the join $CaAl_2Si_2O_8$-SiO_2. American Journal of Science, 279, 876-890.

Longhi, J., Walker, D., and Hays, J. (1976) Fe and Mg in plagioclase. Seventh Lunar Science Conference, p. 1281-1300, Houston, TX.

Mariano, A.N., Ito, J., and Ring, P.J. (1973) Cathodoluminescence of plagioclase feldspars. GSA Abstracts with Programs. 726.

Mariano, A.N., and Ring, P.J. (1975) Europium-activated cathodoluminescence in minerals. Geochimica et Cosmochimica Acta, 39, 649-660.

Marshall, D.J. (1988) Cathodoluminescence of Geological Materials. 146 p. Unwin Hyman, Boston.

Merzbacher, C.I., Sherriff, B.L., Hartman, J.S., and White, W.B. (1990) A high-resolution ^{29}Si and ^{27}Al NMR study of alkaline-earth aluminosilicate glasses. Journal of Non-Crystalline Solids, 124, 194-206.

Miller, S.A., Asimow, P.D., and Burnett, D.S. (2006) Determination of melt influence on divalent element partitioning between anorthite and CMAS melts. Geochimica et Cosmochimica Acta, 70, 4258-4274.

Miller, S.A., Burnett, D.S., and Asimow, P.D. (2003) Experimental divalent element partitioning between anorthite and CAI melt. Lunar and Planetary Science Conference XXXIV, p. 1446, Houston, TX.

Mills, K.C. (1993) The influence of structure on the physico-chemical properties of slags. ISIJ International, 33, 148-155.

Momyer, F.F. (1960) The radiochemistry of the rare gases. 55 p. Subcommittee on Radiochemistry, National Academy of Sciences, National Research Council.

Murakami, H., Kimata, M., Shimoda, S., Ito, E., and Sasaki, S. (1992) Solubility of $CaMgSi_3O_8$ and Si_4O_8. Journal of Mineralogy, Petrology and Economic Geology, 87, 491-509.

Mysen, B.O. (1997) Aluminosilicate melts: structure, composition, and temperature. Contributions to Mineralogy and Petrology, 127, 104-118.

-. (1999) Structure and properties of magmatic liquids: From haplobasalt to haploandesite Geochimica et Cosmochimica Acta, 63, 95-112.

-. (2004) Element partitioning between minerals and melt, melt composition, and melt structure. Chemical Geology, 213, 1-16.
Mysen, B.O., and Dubinsky, E.V. (2004) Melt structural control on olivine/melt partitioning of Ca and Mn. Geochimica et Cosmochimica Acta, 68, 1617-1633.
Mysen, B.O., and Virgo, D. (1980) Trace element partitioning and melt structure: An experimental study at 1 atm pressure. Geochimica et Cosmochimica Acta, 44, 1917-1930.
Mysen, B.O., Virgo, D., and Seifert, F.A. (1982) The structure of silicate melts: Implications for chemical and physical properties of natural magma. Reviews of Geophysics and Space Physics, 20, 353-383.
Nakayama, Y., Nagao, H., Mochida, I., and Kawabuchi, Y. (1994) Adsorption of radon on active carbon. Carbon, 32, 1544-1547.
Nielsen, R.L., and Dungan, M.A. (1983) Low pressure mineral-melt equilibria in natural anhydrous mafic systems. Contributions to Mineralogy and Petrology, 84, 310-326.
O'Neill, H.S.C., and Eggins, S.M. (2002) The effect of melt composition on trace element partitioning: An experimental investigation of the activity coefficients of FeO, NiO, CoO, MoO_2 and MoO_3 in silicate melts. Chemical Geology, 186, 151-181.
Onuma, N., Higuchi, H., Wakita, H., and Nagasawa, H. (1968) Trace element partitioning between two pyroxenes and the host lava. Earth and Planetary Science Letters, 5, 47-51.
Osborn, E.F. (1942) The system $CaSiO_3$-diopside-anorthite. American Journal of Science, 240, 751-788.
Osborn, E.F., DeVries, R.C., Gee, K.H., and Kraner, H.M. (1954) Optimum composition of blast furnace slag as deduced from liquidus data for the quaternary system CaO-MgO-Al_2O_3-SiO_2. Transactions of the American Institute of Mining and Metallurgical Engineers, 200, 33-45.
Osborn, E.F., and Tait, D.B. (1952) The system diopside-forsterite-anorthite. American Journal of Science, 250A, 413-433.
Pack, A., and Palme, H. (2003) Partitioning of Ca and Al between forsterite and silicate melt in dynamic systems with implications for the origin of Ca, Al-rich forsterites in primitive meteorites. Meteoritics and Planetary Science, 38, 1263-1281.
Parrington, J.R., Knox, H.D., Brennan, S.L., Baum, E.M., and Feiner, R. (1996) Nuclides and isotopes: chart of the nuclides. 64 p. General Electric Co. and KAPL, Inc.
Pauling, L. (1960) The nature of the chemical bond and the structure of molecules and crystals : An introduction to modern structural chemistry. 644 p. Cornell University Press, Ithaca, NY.
Peters, M.T., Shaffer, E.E., Burnett, D.S., and Kim, S.S. (1995) Magnesium and titanium partitioning between anorthite and Type B CAI liquid: Dependence on oxygen fugacity and liquid composition. Geochimica et Cosmochimica Acta, 59, 2785-2796.
Presnall, D.C., Gudfinnsson, G.H., and Walter, M.J. (2002) Generation of mid-ocean ridge basalts at pressures from 1 to 7 GPa. Geochimica et Cosmochimica Acta, 66, 2073-2090.
Prince, A.T. (1954) Liquidus relationships on 10% MgO plane of the system lime-magnesia-alumina-silica. Journal of the American Ceramic Society, 37, 402-408.

Prowatke, S., and Klemme, S. (2005) Effect of melt composition on the partitioning of trace elements between titanite and silicate melt. Geochimica et Cosmochimica Acta, 69(695-709).

Purton, J.A., Allan, N.L., Blundy, J.D., and Wasserman, E.A. (1996) Isovalent trace element partitioning between minerals and melts: A computer simulation study Geochimica et Cosmochimica Acta, 60, 4977-4987.

Purton, J.A., Blundy, J.D., and Allan, N.L. (2000) Computer simulation of high-temperature, forsterite-melt partitioning. American Mineralogist, 85, 1087-1091.

Reagan, M.K., Volpe, A.M., and Cashman, K.V. (1992) ^{238}U- and ^{232}Th-series chronology of phonolitic fractionation at Mount Erebus, Antarctica. Geochimica et Cosmochimica Acta, 56, 1401-1407.

Richter, F.M., Parsad, N., Davis, A.M., and Hashimoto, A. (1999) CAI cosmobarometry. Lunar and Planetary Science Conference XXX, Houston, TX.

Rogers, N.W., Evans, P.J., Blake, S., Scott, S.C., and Hawkesworth, C.J. (2004) Rates and timescales of fractional crystallization from ^{238}U-^{230}Th-^{226}Ra disequilibria in trachyte lavas from Longonot volcano, Kenya. Journal of Petrology, 45, 1747-1776.

Roskosz, M., Toplis, M.J., and Richet, P. (2005) Experimental determination of crystal growth rates in highly supercooled aluminosilicate liquids: Implications for rate-controlled processes. American Mineralogist, 90, 1146-1156.

Ryerson, F.J., and Hess, P.C. (1978) Implication of liquid-liquid distribution coefficients to mineral-liquid partitioning. Geochimica et Cosmochimica Acta, 42, 921-932.

Saal, A.E., and Van Orman, J.A. (2004) The ^{226}Ra enrichment in oceanic basalts: Evidence for melt-cumulate diffusive interaction processes within the oceanic lithosphere. G^3, 5, doi:10.1029/2003GC000620.

Schaefer, S.J., Sturchio, N.C., Murrell, M.T., and Williams, S.N. (1993) Internal ^{238}U-series systematics of pumice from the November 13, 1985 eruption of Nevado del Ruiz, Columbia. Geochimica et Cosmochimica Acta, 57, 1215-1219.

Shannon, R.D. (1976) Revised effective ionic radii and systematic studies of interatomic distances in halides and chalcogenides. Acta Crystallographica, A 32, 751-767.

Simon, S.B., Kuehner, S.M., Davis, A.M., Grossman, L., Johnson, M.L., and Burnett, D.S. (1994) Experimental studies of trace element partitioning in Ca, Al-rich compositions: anorthite and perovskite. Geochimica et Cosmochimica Acta, 58, 1507-1523.

Simpson, J.J., and Grun, R. (1998) Non-destructive gamma spectrometric U-series dating. Quaternary Geochronology, 17, 1009-1022.

Sims, K.W.W., Goldstein, S.J., Blinchert-Toft, J., Perfit, M.R., Kelemen, P., Fornari, D.J., Michael, P., Murrell, M.T., Hart, S.R., DePaolo, D.J., Layne, G., Ball, L., Jull, M., and Bender, J. (2002) Chemical and isotopic constraints on the generation and transport of magma beneath the East Pacific Rise. Geochimica et Cosmochimica Acta, 66, 3481-3504.

Singer, B.S., Dungan, M.A., and Layne, G.D. (1995) Textures and Sr, Ba, Mg, Fe, K, and Ti compositional profiles in volcanic plagioclase: Clues to the dynamics of calc-alkaline magma chambers. American Mineralogist, 80, 776-798.

Slaby, E., and Gotze, J. (2004) Feldspar crystallization under magma-mixing conditions shown by cathodoluminescence and geochemical modeling-a case study from the Karkonosze pluton (SW Poland). Mineralogical Magazine, 68, 561-577.

Smith, J.V., and Brown, W.L. (1988) Feldspar Minerals, Vol. 1. Springer-Verlag.

Speit, B., and Lehmann, G. (1982) Radiation defects in feldspars. Physics and Chemistry of Minerals, 8, 77-82.

Stebbins, J.F. (1995) Dynamics and structure of silicate and oxide melts: Nuclear magnetic resonance studies. In J.F. Stebbins, P.F. McMillan, and D.B. Dingwell, Eds. Structure, Dynamics, and Properties of Silicate Melts, 32, p. 191-246. Mineralogical Society of America, Washington, D.C.

Steele, I.M., Peters, M.T., Shaffer, E.E., and Burnett, D.S. (1997) Minor element partitioning and sector zoning in synthetic and meteoritic anorthite. Geochimica et Cosmochimica Acta, 61, 415-423.

Stirling, D., Duncan, A.M., Guest, J.E., and Finch, A.A. (1999) Petrogenesis of plagioclase phenocrysts of Mount Etna, Sicily, with particular reference to the 1983 eruption: Contribution from cathodoluminescence petrography. Mineralogical Magazine, 63, 189-198.

Stolper, E., and Paque, J.M. (1986) Crystallization sequences of Ca-Al-rich inclusions from Allende: The effects of cooling rate and maximum temperature. Geochimica et Cosmochimica Acta, 50, 1785-1806.

Telfer, D.J., and Walker, G. (1978) Ligand field bands of Mn^{2+} and Fe^{3+} luminescence centres and their site occupancy in plagioclase feldspars. Modern Geology, 6, 199-210.

Toplis, M.J., and Corgne, A. (2002) An experimental study of element partitioning between magnetite, clinopyroxene and iron-bearing silicate liquids with a particular emphasis on vanadium. Contributions to Mineralogy and Petrology, 144, 22-37.

Tsuchiyama, A. (1983) Crystallization kinetics in the system $CaMgSi_2O_6$-$CaAl_2Si_2O_8$: The delay in nucleation of diopside and anorthite. American Mineralogist, 68, 687-698.

Turner, S., Evans, P., and Hawkesworth, C. (2001) Ultrafast source-to-surface movement of melt at island arcs from ^{226}Ra-^{230}Th systematics. Science, 292, 1363-1366.

Turner, S.P., George, R., Jerram, D.A., Carpenter, N., and Hawkesworth, C. (2003) Case studies of plagioclase growth and residence times in island arc lavas from Tonga and the Lesser Antilles, and a model to reconcile discordant age information. Earth and Planetary Science Letters, 214, 279-294.

Van Orman, J.A., Saal, A.E., Bourdon, B., and Hauri, E.H. (2006) Diffusive fractionation of U-series radionuclides during mantle melting and shallow-level melt-cumulate interaction. Geochimica et Cosmochimica Acta, 70, 4797-4812.

van Westrenen, W., Allan, N.L., Blundy, J.D., Purton, J.A., and Wood, B.J. (2000) Atomistic simulation of trace element incorporation into garnets-comparison with experimental garnet-melt partitioning data. Geochimica et Cosmochimica Acta, 64, 1629-1639.

van Westrenen, W., Blundy, J., and Wood, B. (1999) Crystal-chemical controls on trace element partitioning between garnet and anhydrous silicate melt. American Mineralogist, 84, 838-847.

van Westrenen, W., Wood, B.J., and Blundy, J.D. (2001) A predictive thermodynamic model of garnet-melt trace element partitioning. Contributions to Mineralogy and Petrology, 142, 219-234.

Vander Auwera, J., Longhi, J., and Duchesne, J.C. (2000) The effect of pressure on D_{Sr} (plag/melt) and D_{Cr} (opx/melt): Implications for anorthosite genesis. Earth and Planetary Science Letters, 178, 303-314.

Vanko, D.A., and Laverne, C. (1998) Hydrothermal anorthitization of plagioclase within the magmatic/hydrothermal transition at mid-ocean ridges: examples from deep sheeted dikes (Hole 504B, Costa Rica Rift) and a sheeted dike root zone (Oman ophiolite). Earth and Planetary Science Letters, 162, 27-43.

Volpe, A.M., and Hammond, P.E. (1991) ^{238}U-^{230}Th-^{226}Ra disequilibrium in young Mount St. Helens rocks: Time constraints for magma formation and crystallization. Earth and Planetary Science Letters, 107, 475-486.

Voltaggio, M., Branca, M., Tedesco, D., Tuccimei, P., and Di Pietro, L. (2004) ^{226}Ra-excess during the 1631-1944 activity period of Vesuvius (Italy): a model of alpha-recoil enrichment in a metasomatized mantle and implications on the current state of the magmatic system. Geochimica et Cosmochimica Acta, 68, 167-181.

Watson, B. (1976) Two-liquid partition coefficients: Experimental data and geochemical implications. Contributions to Mineralogy and Petrology, 56, 119-134.

Watson, E.B., and Liang, Y. (1995) A simple model for sector zoning in slowly grown crystals: Implications for growth rate and lattice diffusion, with emphasis on accessory minerals in crustal rocks. American Mineralogist, 80, 1179-1187.

Wood, B.J., and Blundy, J.D. (1997) A predictive model for rare-earth-element partitioning between clinopyroxene and anhydrous silicate melt. Contributions to Mineralogy and Petrology, 129, 166-181.

-. (2001) The effect of cation charge on crystal-melt partitioning of trace elements. Earth and Planetary Science Letters, 188, 59-71.

Yang, H.-Y., Salmon, J.F., and Foster, W.R. (1972) Phase equilibria of the join akermanite-anorthite-forsterite in the system CaO-MgO-Al_2O_3-SiO_2 at atmospheric pressure. American Journal of Science, 272, 161-188.

Zellmer, G., Turner, S., and Hawkesworth, C. (2000) Timescales of destructive plate margin magmatism: New insights from Santorini, Aegean volcanic arc. Earth and Planetary Science Letters, 174, 265-281.