Further reading

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Level of difficulty: (A) armchair reading; (B) for students; (C) serious stuff. This list of references is not exhaustive. It is only intended to guide the reader into more specialized fields.

- Albarède, F. (1995) *Introduction to Geochemical Modeling*. Cambridge: Cambridge University Press. Geochemical modeling methods with plenty of examples. C.
- Atkins, P. and de Paula, J. (2006) *Atkins' Physical Chemistry* 8th edn. The European classic, very clear and nicely printed. C.
- Allègre, C. J. (2008) *Isotope Geology*. Cambridge: Cambridge University Press. A textbook about isotopes and global geochemistry. The focus is on mass balance. B.
- Anderson, D. L. (2007) *New Theory of the Earth*. Oxford: Blackwell. The original ideas of one of the most influential geophysicists who does not hesitate to cross the line between geophysics and geochemistry. B.
- Aris, R. (1999) *Elementary Chemical Reactor Analysis*. Mineola: Dover. A reprint of the 1989 classic textbook on chemical engineering. Outstanding value. C.
- Berner, R. A. (1980) *Early Diagenesis*. Princeton: Princeton University Press. A common sense but powerful explanation of early diagenesis. B.
- Bethke, C.M. (2008) Geochemical and Biogeochemical Reaction Modeling, 2nd edn. Cambridge: Cambridge University Press. A rigorous presentation of geochemical concepts with a focus on environmental issues and water–rock interaction. A useful introduction to a well-distributed software package. B.
- Broecker, W. S. (1994) *Greenhouse Puzzles*. Palisades: Eldigio. The greenhouse effect will never seem the same to you again. A.
- Broecker, W. S. (1995) *The Glacial World According to Wally*. Palisades: Eldigio. Quaternary climates by the undisputed champion. A.
- Broecker, W. S. and Peng, T. H. (1982) *Tracers in the Sea*. Palisades: Eldigio. Not read it yet? Still fascinating 25 years later. B.
- Brownlow, A. H. (1986) *Geochemistry*. Upper Saddle Review, Prentice Hall. One of the most popular textbooks on geochemistry. B.
- Cottingham, W. N. and Greenwood, D. A. (1986) *An Introduction to Nuclear Physics*. Cambridge: Cambridge University Press. If you desperately need to get into this difficult field, this book tries hard to make your life less miserable. C.
- Criss, R. E. (1999) *Principles of Stable Isotope Distribution*. Oxford: Oxford University Press. An enjoyable reference with examples. C.

- Denbigh, K. (1981) *The Principles of Chemical Equilibrium*. Cambridge: Cambridge University Press. Many have tried to do better. I keep patching up the cover of my copy. B.
- Dickin, A. (2005) *Radiogenic Isotope Geology*, 2nd edn. Cambridge: Cambridge University Press. A very well written reference work. B.
- Faure, G. and Mensing, T.M. (2005) *Isotopes. Principles and Applications*. Chichester: Wiley. A scholarly treatise emphasizing the methods with abundant references. B.
- Greenwood, N. N. and Earnshaw, A. (1995) *Chemistry of the Elements*. Oxford: Butterworth–Heinemann. A best-seller on the inorganic chemistry of the elements.
- Killops, S. and Killops, V. (2005) *Introduction to Organic Geochemistry*, 2nd edn. Blackwell: Oxford. An enormous amount of information, well-organized and easy to read. B.
 - Konhauser, K. (2007) *Introduction to Geomicrobiology*. Blackwell: Oxford. A great introduction to the interface between microbiology and geochemistry. B.
 - Krauskopf, K. B. and Bird, D. K. (1995) *Geochemistry*. New York: McGraw-Hill. One of the most popular textbooks on geochemistry. The third edition was extensively re-written. B.
 - Lasaga, A. (1998) *Kinetic Theory in the Earth Sciences*. Princeton: Princeton University Press. An outstanding account of the physics that underlies geochemistry. C.
 - Lerman, A. (1988) *Geochemical Processes*. Malabar, Krieger. An amazing book on low-temperature geochemistry with a unique approach to physical processes. Never out of fashion. B.
 - Lunine, J.I. (1999) Earth. Evolution of a Habitable World. Cambridge: Cambridge University Press. The Earth from the Enterprise. Delightful. A.
 - Maczek, A. (1998) *Statistical Mechanics*. Oxford: Oxford University Press. A bargain book that leads the reader swiftly through the arcanes of elemental and isotopic fractionation. B.
 - McBirney, A. R. (2006) *Igneous Petrology*, 3rd edn. Boston: Jones and Bartlett. An elegant and non-conventional introduction to magmatic processes. B.
 - McBride, N. and Gilmour, I. (2005) *An Introduction to the Solar System*. Cambridge: The Open University Press and Cambridge University Press. A very well written tutorial, very pleasant to read. A.
 - McDougall, I. and Harrison, T. M. (1999) Geochronology and Thermochronology by the ⁴⁰Ar-³⁹Ar method. Oxford: Oxford University Press. An exhaustive but difficult reference of an essential geochronology technique. C.
 - McSween, H. Y., Jr (1999) *Meteorites and Their Parent Planets*. Cambridge: Cambridge University Press. An excellent modern textbook on these weird and fascinating objects. B.
 - McSween, H. Y., Richardson, S.M., and Uhle, M.E. (2003) *Geochemistry. Pathways and Processes*. 2nd edn. Columbia University Press, New York. An excellent alternative to the book you are reading, great! B.
 - Millero, F. J. (2005) *Chemical Oceanography*, 3rd edn. Boca Raton, CRC Press. An authoritative reference. B.

- Morel, F. M. M. and Hering, J. G. (1993) *Principles and Applications of Aquatic Chemistry*. Chichester: Wiley. A particularly insightful introduction to usually difficult concepts of water chemistry. C.
- The Oceanography Course Team of the Open University (1991) Oxford: Pergamon. These seven titles of very clear and wonderfully illustrated bargain books supersede any introductory text in Oceanography. I recommend particularly two of these: *Ocean Circulation* and *Seawater: Its Composition, Properties, and Behavior*. A.
- Ottonello, G. (2000) *Principles of Geochemistry*. New York: Columbia. An excellent textbook focused on thermodynamics, now in an affordable paperback edition. B.
- Ozima, M. and Podosek, F. (2002) *Noble Gas Geochemistry*, 2nd edn. The reference by two pioneers of the field. B.
- Schubert, G., Turcotte, D.L., and Olson, P. (2001) *Mantle convection in the Earth and Planets*. Cambridge: Cambridge University Press. If you can't find something about the interior of the Earth and planets, it will surely be in this book. Difficult but luminous, indispensable. C.
- Sharp, Z. (2007) *Principles of Stable Isotope Geochemistry*. Prentice Hall: Upper Saddle River. An insightful and inspiring book with a modern spirit. B.
- Silbey, R.J., Alberty, R.A., and Bawendi, M.G. (2005) *Physical Chemistry*, 4th edn. Wiley: Chichester. A powerful book. Beats all my teachers. Your ignorance won't survive. B.
- Stumm, W. and Morgan, J. J. (1995) *Aquatic Chemistry*. Chichester: Wiley. The undisputed bible with plentiful examples. C.
- Taylor, S. R. (2001) *Solar System Evolution: A New Perspective*. Cambridge: Cambridge University Press. An extremely well-written textbook by one of the leading scholars of geochemistry. A.
- Taylor, S. R. and McLennan, S. M. (1985) *The Continental Crust: its Composition and Evolution*. Blackwell: Oxford. The ultimate read on the geochemistry of continental crust. B.
- Valley, J. W. and Cole, D. R. (2001) *Stable Isotope Geochemistry*. Washington: Mineralogical Society of America. A set of varied and very high-quality review papers. B.
- Wayne, R.P. (2000) *Chemistry of Atmospheres*, 3rd edn. Oxford: Oxford University Press. An enormous amount of information on modern issues without the hassle of atmospheric dynamics. B.
- Wulfsberg, G. (2000) *Inorganic Chemistry*. Sausallito: University Science Books. Illuminating on some of the most difficult concepts of the field. B.

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