

1. Anderson, G.M., Entropy and Sign Conventions. *Foundations of Chemistry*, vol. 25, Issue 1. <https://doi.org/10.1007/s10698-022-09463-6>.
2. Anderson, G.M., *Thermodynamics of Natural Systems*, Third edition. Cambridge University Press, 413 pp., 2017.
3. Anderson, G.M. The meaning of Δ . *The Journal of Chemical Education*, v. 92(4), pp. 774–776, 2015.
4. Anderson, G.M. Kerogen as a source of sulfur in MVT deposits. *Economic Geology*, v. 110, pp. 809–835, 2015.
5. Anderson, G.M. The entropy paradox and overstepping in metamorphic reactions. *Chemical Geology*, v. 384, pp. 10–15, 2014.
6. Anderson, G.M. The mixing hypothesis and the origin of Mississippi Valley-Type ore deposits. *Economic Geology*, v. 103, pp. 1683–1690, 2008.
7. Anderson, G.M., and Thom, J., The role of thermochemical sulfate reduction in the formation of MVT deposits. II. Carbonate-sulfide relationships. *Geofluids*, v. 8, pp. 27–34, 2008.
8. Thom, J, and Anderson, G.M., The role of thermochemical sulfate reduction in the formation of MVT deposits. I. Experimental results. *Geofluids*, v. 8, pp. 16–26, 2008.
9. Anderson, G.M., *Thermodynamics of Natural Systems*, Second edition. Cambridge University Press, 648 pp., 2005. Reprinted with corrections, 2008.
10. Thom, J., and Anderson, G.M., The role of thermochemical sulfate reduction in the formation of MVT deposits. XVI Congreso Geológico Argentino, Actas. Tomo II: 755–762. La Plata, 2005.
11. Anderson, G.M., Truth and beauty in thermodynamics. *Can. Mineralogist* (A special volume in honor of D.M. Carmichael. Symposium was titled “Truth and Beauty in Metamorphism”), v. 43, pp. 11–19, 2005.
12. Zhu, C. and Anderson, G.M., *Environmental Applications of Geochemical Modeling*. Cambridge University Press, 284 pp. 2002.
13. Zhu, C., Anderson, G.M., and Burden, D.S., Natural attenuation reactions at a uranium mill tailings site, western USA. *Ground Water*, v. 40, pp. 5–13, 2002.
14. Anderson, G.M., Stable and metastable equilibrium: the third constraint. *Article In: "Water-rock Interaction, Ore Deposits, and Environmental Geochemistry: A tribute to David A. Crerar"* Geochemical Society Special Publication No. 7. R. Hellmann and S.A. Wood, editors. p. 181–189, 2002.
15. MacMurray, B.A, and Anderson, G.M., A fluid inclusion study of the drusy quartz of the Potosi dolostone, southeast Missouri. *Article In: "Water-rock Interaction, Ore Deposits, and Environmental Geochemistry: A tribute to David A. Crerar"* Geochemical Society Special Publication No. 7. R. Hellmann and S.A. Wood, editors. p. 329–336, 2002.
16. Anderson, G.M., The Thermodynamics of Hydrothermal Systems. *Chapter 1 in: Reviews in Economic Geology, Vol. 10, : Techniques in Hydrothermal Ore Deposits Geology*. J.P. Richards and P. Larson, Eds.; Published by the Society of Economic Geologists, pp. 1–32, 1998.

17. Anderson, G.M., *Thermodynamics of Natural Systems*. John Wiley & Sons, New York. 382 pp., 1996.
18. Randell, R.N., Héroux, Y., Chagnon, A., and Anderson, G.M., Organic matter and clay minerals at the Polaris Zn-Pb deposit, Canadian arctic archipelago. *Chapter in: Carbonate-Hosted Lead-Zinc Deposits*. D.F. Sangster, ed., Special Publication No. 4, Society of Economic Geologists, pp. 320-329, 1996.
19. Randell, R.N., and Anderson, G.M., Geology of the Polaris Zn-Pb deposit and surrounding area, Canadian arctic archipelago. *Chapter in: Carbonate-Hosted Lead-Zinc Deposits*. D.F. Sangster, ed., Special Publication No. 4, Society of Economic Geologists, pp. 304-319, 1996.
20. Anderson, G.M., Is there alkali-aluminum complexing at high temperatures and pressures? *Geochim. et Cosmochim. Acta*, v. 59, pp. 2155–2161. 1995.
Addendum: *Geochim. et Cosmochim. Acta*, v. 59, pp. 4103–4104, 1995.
21. Anderson, G.M., and Crerar, D.A., *Thermodynamics in Geochemistry—The Equilibrium Model*. Oxford University Press, New York, 588 pp., 1993.
22. Henry, A., Anderson, G.M., and Héroux, Y., Alteration of organic matter in the Viburnum Trend lead-zinc district of Southeastern Missouri. *Econ. Geol.*, v. 87, pp. 288–309, 1992.
23. Anderson, G.M., and Cermignani, C., Mineralogical and thermodynamic constraints on the metasomatic origin of the York River nepheline gneisses, Bancroft, Ontario. *Can. Mineralogist*, v. 29, pp. 965–980, 1991.
24. Anderson, G.M., Organic maturation and ore precipitation in Southeast Missouri. *Econ. Geol.*, v. 86, pp. 909–926, 1991.
25. Anderson, G.M., Castet, S., Mesmer, R.E., and Schott, J., The density model for estimation of thermodynamic parameters of reactions at high temperatures and pressures. *Geochim. Cosmochim. Acta*, v. 55, pp. 1769–1779, 1991.
26. Pascal, M.L., and Anderson, G.M., Speciation of Al, Si and K in supercritical solutions: Experimental study and interpretation. *Geochim. et Cosmochim. Acta*, v. 53, pp. 1843–1855, 1989.
27. Barrett, T.J., Anderson, G.M., and Lugowski, J., The solubility of hydrogen sulfide in 0–5 m NaCl solutions at 25° – 95°C and one atmosphere. *Geochim. et Cosmochim. Acta*, v. 52, pp. 807–811, 1988.
28. Barrett, T.J., and Anderson, G.M., The solubility of sphalerite and galena in 1–5 molal NaCl solutions to 300°C. *Geochim. et Cosmochim. Acta*, v. 52, pp. 813–820. 1988.
29. Anderson, G.M., and Macqueen, R.W., Mississippi Valley-type lead-zinc deposits. *Chapter in: Ore Deposit Models*, R.G. Roberts and P.A. Sheahan, eds., Geoscience Canada Reprint Series 3, pp. 79–90, 1988.
30. Renders, P.J., and Anderson, G.M., Solubility of kaolinite and beryl to 573 K. *Applied Geochemistry*, v. 2, pp. 193–203, 1987.
31. Anderson, G.M., and Garven, G., Sulfate–sulfide–carbonate associations in Mississippi Valley-type lead-zinc deposits. *Econ. Geol.* v. 82, pp. 482–488, 1987.

32. Anderson, G.M., Pascal, M.L., and Rao, J., Aluminum speciation in metamorphic fluids. *Article in*: “Chemical Transport in Metasomatic Processes”, H.C. Helgeson, editor, Proceedings of NATO Advanced Study Institute, Attica, Greece, D.Reidel Publishers, pp. 297–321, 1987.
33. Cermignani, C., and Anderson, G.M., The plagioclase exchange reaction in carbonate solutions and implications for nephelinization. *Amer. Jour. Sci.*, v. 283–A, pp. 314–327, 1983.
34. Anderson, G.M., and Burnham, C.W., Feldspar solubility and the transport of aluminum under metamorphic conditions. *Amer. Jour. Sci.*, v. 283–A, pp. 283–297, 1983.
35. Anderson, G.M., Some geochemical aspects of the deposition of sulfides in carbonate rocks. *Article in*: “International Conference on Mississippi Valley-Type Lead-Zinc Deposits”, Proceedings volume, University of Missouri, Rolla, Missouri, pp. 61–76, 1983.
36. Anderson, G.M., and Macqueen, R.W., Ore Deposit Models 6. Mississippi Valley-type lead-zinc deposits. *Geoscience Canada*, v. 9, pp. 108–117, 1982.
37. Barrett, T.J., and Anderson, G.M., The solubility of sphalerite and galena in NaCl brines. *Econ. Geol.* v. 77, pp. 1923–1933, 1982.
38. Anderson, G.M., Basinal brines and Mississippi Valley-type ore deposits. *Episodes*, v. 1978, pp. 15–19, 1978.
39. Hamann, R.J., and Anderson, G.M., Solubility of galena in sulfur-rich NaCl solutions. *Econ. Geol.*, v. 73, pp. 96–100, 1978.
40. Anderson, G.M., Fugacity, Activity and the Equilibrium Constant. *Chapter 2 in*: Mineralogical Assoc. of Canada Short Course Handbook no. 2, “Application of Thermodynamics to Petrology and Ore Deposits”. (H.J. Greenwood, editor), pp. 17–37, 1977.
41. Anderson, G.M., Thermodynamics and sulfide solubilities. *Chapter 10 in*: Mineralogical Assoc. of Canada Short Course Handbook no. 2, “Application of Thermodynamics to Petrology and Ore Deposits”. (H.J. Greenwood, editor), pp. 136–150, 1977.
42. Anderson, G.M., Uncertainties in calculations involving thermodynamic data. *Chapter 14 in*: Mineralogical Assoc. of Canada Short Course Handbook no. 2, “Application of Thermodynamics to Petrology and Ore Deposits”. (H.J. Greenwood, editor), pp. 199–215, 1977.
43. Anderson, G.M., Error propagation by the Monte Carlo method in geochemical calculations. *Geochim. et Cosmochim. Acta*, v. 40, pp. 1533–1538, 1976.
44. Reeve, E.J., and Anderson, G.M., Melting relations of nepheline rocks from the York river area, Bancroft, Ontario. *Indian Jour. Earth Sci.*, v. 3, pp. 88–96, 1976.
45. Reeve, E.J., and Anderson, G.M., The Goulding-Keene Nepheline Pegmatite near Bancroft, Ontario. *Can. Jour. Earth Sci.*, v. 13, pp. 237–248, 1976.
46. Anderson, G.M., The accuracy and precision of calculated mineral dehydration equilibria. *Chapter in*: “Thermodynamics in Geology”, D. Fraser, editor, Proceedings of NATO Advanced Study Institute, Oxford, pp. 115–136, D. Reidel Publishers, 1976.
47. Sylvester, G.C., and Anderson, G.M., The Davis nepheline pegmatite and associated nepheline gneisses near Bancroft, Ontario. *Can. Jour. Earth Sci.*, v. 13, pp. 248–265, 1976.

48. Anderson, G.M., and Hamilton, D.L., Ion exchange reactions involving feldspars, nepheline, kalsilite and an aqueous chloride fluid phase. *Article in: "Progress in Experimental Petrology"* Third progress report of research supported by N.E.R.C. at Edinburgh and Manchester Universities, 1972–75. The Natural Environment Research Council Publ. Series D, No. 6, pp. 36–40, 1976.
49. Anderson G.M., Sylvester, G.C., and Reeve, E.J., Nepheline pegmatites in the York river area near Bancroft, Ontario, Canada, *Fortschritte der Mineralogie*, v. 2, pp. 265–278, 1975.
50. Anderson, G.M., Precipitation of Mississippi Valley-type ores. *Econ. Geol.*, v. 70, pp. 937–942, 1975.
51. Anderson, G.M., The hydrothermal transport and deposition of galena and sphalerite near 100°C. *Econ. Geol.*, v. 68, pp. 480–492, 1973.
52. Bird, G.W. and Anderson, G.M., The free energy of formation of magnesian cordierite and phlogopite. *Am. Jour. Sci.*, v. 273, pp. 84–91, 1973.
53. Cermignani, C. and Anderson, G.M., Origin of a diopside–tremolite assemblage near Tweed, Ontario. *Can. Jour. Earth Sci.*, v. 10, pp. 84–90, 1973.
54. Anderson, G.M., Silica solubility. *Article in: "Encyclopedia of Geochemistry and Environmental Sciences"*, v. IV–A, R.W. Fairbridge, editor, pp. 1085–1088, 1972.
55. Crerar, D.A. and Anderson, G.M., Solubility and solvation reactions of quartz in dilute hydrothermal solutions. *Chem. Geology*, v. 8, pp. 107–122, 1971.
56. Nriagu, J.O. and Anderson, G.M., Stability of the lead (II) chloride complexes at elevated temperatures. *Chemical Geology*, v. 7, pp. 171–183, 1971.
57. Nriagu, J.O. and Anderson, G.M., Calculated solubilities of some base metal sulphides in brine solutions. *Trans. Section B., Inst. Mining and Metallurgy*, v. 79, pp. 208–212, 1970.
58. Anderson, G.M., Standard states at fixed and variable pressures. *Jour. Chem. Education*, v. 47, pp. 676–679, 1970.
59. Anderson, G.M., Some thermodynamics of dehydration equilibria. *Amer. Jour. Sci.*, v. 269, pp. 392–401, 1970.
60. Anderson, G.M., *Physical Geochemistry*, *Chapter in: Background Papers on the Earth Sciences in Canada*, C.H. Smith, editor, pp. 268–275, 1970.
61. Anderson, G.M., and Burnham, C.W., Reactions of quartz and corundum with aqueous chloride and hydroxide solutions at high temperatures and pressures. *Amer. Jour. Sci.* v. 265, pp. 12–27, 1967.
62. Hamilton, D.L., and Anderson, G.M., The effects of water and oxygen pressures on the crystallization of basaltic magmas. *Chapter in: "Basalts: The Poldervaart Treatise on Rocks of Basaltic Composition"*, v. I, pp. 445–482, Interscience Publishers, 1967.
63. Anderson, G.M., Specific volumes and fugacities of water. *Appendix I in: "Geochemistry of Hydrothermal Ore Deposits"*, H.L. Barnes, editor, Holt, Rinehart and Winston, pp. 632–634, 1967.

64. Anderson, G.M. and Burnham, C.W., The solubility of quartz in supercritical water. *Amer. Jour. Sci.* v. 263, pp. 493–511, 1965.
65. Keith, M.L., Anderson, G.M. and Eichler, R., Carbon and oxygen isotopic composition of mollusc shells from marine and fresh water environments. *Geochim. et Cosmochim. Acta* v. 28, pp. 1757–1786, 1964.
66. Anderson, G.M., The calculated fugacity of water to 1000°C and 10,000 bars. *Geochim. et Cosmochim. Acta.* v. 28, pp. 713–715, 1964.
67. Keith, M.L., and Anderson, G.M., Radiocarbon dating: Fictitious results with mollusc shells. *Science* v. 141, pp. 634–637, 1963. same authors and title: reply to published comment: *Science* v. 144, p. 890, 1964.
68. Anderson, G.M., The solubility of PbS in H₂S–water solutions: *Econ. Geol.* v. 57, pp. 809–828, 1962.