

¹ D. K. Nordstrom, C. N. Alpers, C. J. Ptacek, and D. W. Blowes, *Environ. Sci. Technol.* 34, 254 (2000); see “Background Reading.”

² M. Henry, J. P. Jolivet, and J. Livage, *Struct. Bond.* 77, 153 (1992); see “Background Reading”.

³ W. M. Latimer, K. S. Pitzer, and C. M. Slansky, *J. Chem. Phys.* 7, 108 (1939). The original equation given by Latimer has been updated by Roger W. Todd to fit the more modern thermodynamic data and radii.

⁴ F. Estrada, P. Perron, and B. Martínez-López, *Nature Geosci.* 6, 1050 (2013).

⁵ W. T. Sturges, T. J. Wallington, M. D. Hurley, K. P. Shine, K. Sihra, A. Engel, D. E. Oram, S. A. Penkett, R. Mulvaney, and C. A. M. Brenninkmeijer, *Science* 289, 611 (2000).

⁶ R. Tuckett, *Educ. Chem.* 45, 17 (2008).

⁷ M. J. S. Dewar, *Organometallics* 1, 1705 (1982).

⁸ D. D. Perrin, *Ionization Constants of Inorganic Acids and Bases in Aqueous Solution*, 2nd ed., Pergamon: Oxford, UK, 1982.

⁹ G. Wulfsberg, *Principles of Descriptive Inorganic Chemistry*, University Science Books: Mill Valley, CA, 1991, p. 57.