

Further Reading

Textbooks

Bioinorganic Chemistry -- Inorganic Elements in the Chemistry of Life: An Introduction and Guide

W. Kaim, B. Schwederski, A. Klein
John Wiley & Sons (2013)

Concepts and Models in Bioinorganic Chemistry

H.-B. Kraatz, N. Metzler-Nolte
Wiley-VCH (2006)

Bioinorganic Medicinal Chemistry

E. Alessio
Wiley-VCH (2011)

Principles Bioinorganic Chemistry

S. J. Lippard, G. Klatt, J. M. Berg
Univ. Science Books (1994)

Selected papers with details to some items:

Biologically important metal ions

S. J. Lippard, Nat. Chem. Biol. 2006, 2, 504.
F. Wolfe-Simon et al., Science, 2011, 332, 1163.

Biological bonding site of metal ions (bioligands)

M.Ø. Jensen et al., Science 2012, 33, 229.
K. N. Raymond et al., PNAS, 2003, 100, 3584.

Selected Metal ions with biological importance – Sodium, Potassium, Iron

M.Ø. Jensen et al., Science 2012, 33, 229.
A. N. Miller et al., Science 2012, 335, 432.
S. G. Brohawn et al., Science 2012, 335, 436.
H. Poulsen et al., Science, 2012, 335, 416.
J. Liao et al., Science, 2012, 335, 686.
J. Abramson et al., Science, 2012, 335, 669.
H. M. Baker et al., PNAS, 2003, 100, 3579.
S. J. Lippard et al., Science 1993, 259, 1302.
Collmann et al., Chem. Rev. 2004, 104, 6561.
Faraone-Menella, Biochemistry, 2006, 45, 10504.
Collmann et al., Chem. Commun. 2008, 5065.
Tsukihara et al. Science, 1995, 269, 1069
Babcock, Science, 2000, 290, 1588-1592
Hersleth et al., J. Inorg. Biochem. 2006, 100, 460.
Nam, Acc. Chem. Res. 2007, 40, 522-531.
Schlichting et al., Science, 287, 1615-1622

Selected Metal ions with biological importance – Copper, Zinc, Vanadium

Collmann et al., Chem. Commun. 2008, 5065.

Tsukihara et al. 1995, 269, 1069.

Babcock, Science, 2000, 290, 1588.

R. L. Lieberman, A. C. Rosenzweig, Nature, 2005, 434, 177.

P. F. Knowles et al., Nature, 1991, 350, 87.

Berg, Annu. Rev. Biophys. Biochem. 1990, 19, 405.

Metals in Medicine

R. Todd et al., Metallomics, 2009, 1, 280.

J. H. J. Hoejimakers, New England J. Med., 2009, 361, 1475.

L. Kelland, Nature Reviews Cancer, 2007, 7, 573.

Hollis et al., J. Med. Chem. 1989, 32, 128.

N. Graf et al., ACS Nano 2012, 6, 4530.

Jacupec et al., Dalton Trans, 2008, 183.