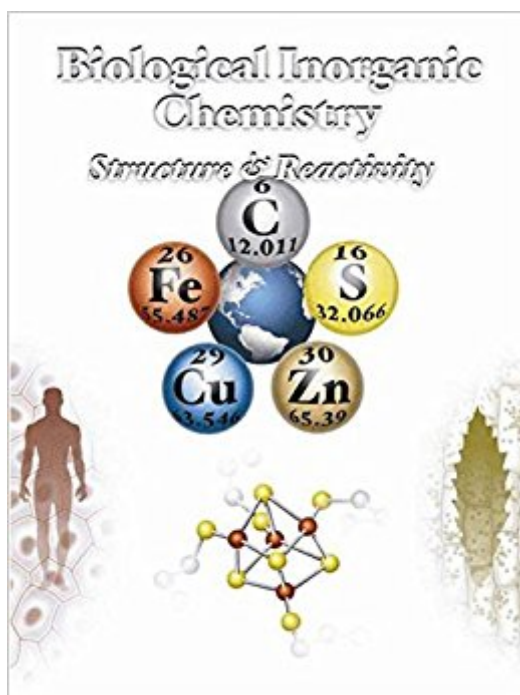




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# Biological Inorganic Chemistry: Structure And Reactivity



## Synopsis

The long awaited text for 21st century courses in biological inorganic chemistry is now available. Organized and edited by Ivano Bertini, Harry Gray, Ed Stiefel, and Joan Valentine, with contributions from many other world leaders in the field, this all-new book is equally appropriate for graduate or senior undergraduate courses in bioinorganic chemistry. The book has been extensively class-tested at Princeton and UCLA, and it includes tutorials in biology and biochemistry and in inorganic chemistry to aid students of varying backgrounds. The main text is divided into two parts. Part A, *Overviews of Biological Inorganic Chemistry*, sets forth the unifying principles of the field. A full course in bioinorganic chemistry could be based entirely on this overview section, which is really a book within a book! Part B, *"Metal-Ion Containing Biological Systems,"* describes specific classes of systems in detail. A special feature is the strong connection to the genomic revolution that has dramatically enhanced our ability to define the function of gene products in living organisms. Throughout the book, protein data bank codes are given for structures discussed in the text, and students are encouraged to learn to use the PDB in their courses and research. This exciting new book will be a must read for years to come for all students and researchers interested in the field of biological inorganic chemistry.

## Book Information

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## Customer Reviews

"A fantastic book that I can't wait to get on my shelf. It will be a good upper-undergrad/graduate text, and an excellent reference text for those in the field." --Sonya J. Franklin, University of Iowa

"Excellent and comprehensive...appropriate for use both as a textbook and as a reference." --Kara

Ivano Bertini is Professor of Chemistry and Director of the Magnetic Resonance Center of the University of Florence. His main research interests are the advancements in nuclear magnetic resonance spectroscopy, the expression and preparation of metalloproteins, their structural characterization and the investigation of their interactions with emphasis on understanding cellular processes at the molecular level. He has over 600 papers and many books. Harry Barkus Gray is the Arnold O. Beckman Professor of Chemistry and the Founding Director of the Beckman Institute at the California Institute of Technology. His main research interests center on inorganic spectroscopy, photochemistry, and bioinorganic chemistry, with emphasis on understanding electron transfer in proteins. For his contributions to chemistry, which include over 700 papers and 17 books, he has received many honors including the National Medal of Science from President Ronald Reagan. Edward I. Stiefel, Professor of Chemistry at Princeton University and associated faculty member of the Princeton Environmental Institute until his untimely death in summer of 2006. His research involved the role of metal ions in biological systems including: iron in marine environments, especially the iron storage and DNA protective proteins ferritin and Dps; the biological production of hydrogen by phototropic hydrogenases and theoretical studies of hydrogenase action; the role of molybdenum in biology; and aspects of metals in medicine. Joan Selverstone Valentine is Professor of Chemistry and Biochemistry at UCLA. She is a leading figure working at the interface of inorganic chemistry and biology and has published over 200 research papers and several books, and her work is widely cited.

This is an easy to read textbook, full of insight and interesting knowledge. As a chemist and biologist, this book filled in a gap in my knowledge that bridged my two backgrounds together.

This is a great book that provides fairly detailed insight into structure and reactivity with a particular emphasis on mechanism. Detail regarding structure and geometry of the enzymatic pocket and the role of all of the biochemical "shrubbery" in orienting targets for reactivity provides a great deal of insight into the role of the enzyme classes and their respective duties in biological systems. Detailed and useful background is provided for those with little experience in inorganic chemistry and metal-ligand interactions with an emphasis on bio-ligands such as the essential amino acids. Useful references to peer-reviewed journal articles add substantial depth to the potential for learning. I highly recommend this book.

This book was understandable and had a great section in the end to help you brush up on Biology and Inorganic Chemistry before delving into BioInorganic.

Great reference book for any researcher in this field.

Great book. The Appendixes are very useful!

Sometimes a professor will want to use an older edition for a class text and they can be hard to find - even used. I was happy to see they were here and unused. I don't like notes in the margins or highlighting - even if it means not being able to sell the book back after the semester ends.

The book arrived in EXCELLENT condition. No tears on the pages and no deep impressions on the front and back covers. As I said, this book was in EXCELLENT condition--thanks!

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