This text covers material that could be included in a one-quarter or one-semester course in bioinorganic chemistry for
graduate students and advanced undergraduate students in chemistry or biochemistry. The authors believe that such a
course should provide students with the background required to follow the research literature in the field. The topics
were chosen to represent those areas of bioinorganic chemistry that are mature enough for textbook presentation.
Although each chapter presents material at a more advanced level than that of bioinorganic textbooks published
previously, the chapters are not specialized review articles.

• Front Matter

• 1: Transition-Metal Storage, Transport, and Biomineralization

• 2: The Reaction Pathways of Zinc Enzymes and Related Biological Catalysts
3: Calcium in Biological Systems

• 4: Biological and Synthetic Dioxygen Carriers

• 5: Dioxygen Reactions

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• 7: Ferredoxins, Hydrogenases, and Nitrogenases - Metal-Sulfide Proteins
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