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Principles of bioinorganic chemistry: By S J Lippard and J M Berg. pp 411. University Science Books, Mill Valley, California. 1994. \$30 ISBN 0 935702 73 3 (paper) - Vella - 1995 - Biochemical Education - Wiley Online Library. Skip to Article Content.

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Principles Bioinorganic Chemistry. As one of the most dynamic fields in contemporary science, bioinorganic chemistry lies at a natural juncture between chemistry, biology, and medicine. This rapidly expanding field probes fascinating questions about the uses of metal ions in nature.

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CHAPTER 2 Principles of Coordination Chemistry Related to Bioinorganic Research 21 2.1. Thermodynamic Aspects 21 2.1.a. The Hard-Soft Acid-Base Concept 21 2.1.b. The Chelate Effect and the Irving-Williams Series 24 2.1.c. pKa Values of Coordinated Ligands 24 2.1.d. Tuning of Redox Potentials 26 2.1.e. Biopolymer Effects 28 2.2. Kinetic Aspects 28 2.2.a.

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Principles of Bioinorganic Chemistry, S. J. Lippard and J. M. Berg, University Science Books: Mill Valley, CA (1994). Edited Books. Platinum, Gold, and Other Metal Chemotherapeutic Agents, ACS Symposium Series 209. Based on a symposium sponsored by the Division of Inorganic Chemistry of the American Chemical Society at the ACS National Meeting, Las Vegas, Nevada, March-April 1982.

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Summarized presentation of the role of elements in biological This item:Principles of Bioinorganic Chemistry by Stephen J. Lippard Hardcover \$43.99. Only 1 left in stock - order soon. Ships from and sold by Value_Text. Biological Inorganic Chemistry: Structure and Reactivity by Harry B. Gray Hardcover \$101.36.

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Bioinorganic Chemistry by Bertini, Gray, Lippard and Valentine • 2. Principles of Bioinorganic Chemistry by Lippard and Berg • 3. Bioinorganic Chemistry: Inorganic Elements in the Chemistry of Life by Kaim and Schwederski • 4. Biological Inorganic Chemistry by R. R. Crichton.

Bioinorganic Chemistry - Course

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Book: Bioinorganic Chemistry (Bertini et al.) - Chemistry ...

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.

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As one of the most dynamic fields in contemporary science, bioinorganic chemistry lies at a natural juncture between chemistry, biology, and medicine. This rapidly expanding field probes fascinating questions about the uses of metal ions in nature. Respiration, metabolism, photosynthesis, gene regulation, and nerve impulse transmission are a few of the many natural processes that require metal ions, and new systems are continually being discovered. The use of unnatural metals - which have been introduced into human biology as diagnostic probes and drugs - is another active area of tremendous medical significance. This introductory text, written by two pioneering researchers, is destined to become a landmark in the field of bioinorganic chemistry through its organized unification of key topics. Accessible to undergraduates, the book provides necessary background information on coordination chemistry, biochemistry, and physical methods before delving into topics that are central to the field: What metals are chosen and how are they taken up by cells? How are the concentrations of metals controlled and utilized in cells? How do metals bind to and fold biomolecules? What principles govern electron transfer and substrate binding and activation reactions? How do proteins fine-tune the properties of metals for specific functions? For each topic discussed, fundamentals are identified and then clarified through selected examples. An extraordinarily readable writing style combines with chapter-opening principles, study problems, and beautifully rendered two-color illustrations to make this book an ideal choice for instructors, students, and researchers in the chemical, biological, and medical communities.

This text provides detailed coverage of physical methods used in bioinorganic chemistry. Individual chapters are devoted to electronic absorption spectroscopy, resonance Raman spectroscopy, electron paramagnetic resonance spectroscopy, ENDOR and ESEEM, magnetic circular dichroism, Mössbauer spectroscopy, magnetism, NMR spectroscopy as applied to paramagnetic systems, and x-ray absorption spectroscopy. The book aims to provide a fundamental understanding of each method and demonstrate how data obtained from a system of bioinorganic interest can be interpreted. Case studies are presented in the last chapter in which more than one technique has been applied to gain insight into each given bioinorganic problem. By integrating theory with experimentation and providing an orientation that is more biological than that presented in previously published books, *Physical Methods in Bioinorganic Chemistry: Spectroscopy and Magnetism* will serve as an important new text for students of bioinorganic chemistry, biochemistry, molecular biology, and their professors.

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Part A.: Overviews of biological inorganic chemistry : 1. Bioinorganic chemistry and the biogeochemical cycles -- 2. Metal ions and proteins: binding, stability, and folding -- 3. Special cofactors and metal clusters -- 4. Transport and storage of metal ions in biology -- 5. Biominerals and biomineralization -- 6. Metals in medicine. -- Part B.: Metal ion containing biological systems : 1. Metal ion transport and storage -- 2. Hydrolytic chemistry -- 3. Electron transfer, respiration, and photosynthesis -- 4. Oxygen metabolism -- 5. Hydrogen, carbon, and sulfur metabolism -- 6. Metalloenzymes with radical intermediates -- 7. Metal ion receptors and signaling. -- Cell biology, biochemistry, and evolution: Tutorial I. -- Fundamentals of coordination chemistry: Tutorial II.

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Those of us who read a daily newspaper or scan a weekly magazine have grown accustomed to being told that the science of genetics influences countless aspects of our existence, from human development, health, and disease to the ecological balance of our planet. We accept this, and yet most of us have only the faintest idea of what a gene really is or how it functions. This book, then, is a primer on modern genetics, and its aim is to teach any interested general reader all he or she needs to know about how genes work - and about how a detailed knowledge of their workings can be applied to some of the most pressing problems of our time. Written by two world-renowned researchers in molecular biology and illustrated with uncommon clarity and precision, *Dealing with Genes* will satisfy the interest of general readers, including those who have little formal background in biology. It will also serve admirably as an authoritative text for students taking nonmajors courses in biology, genetics, molecular biology, biotechnology, and related disciplines.

The field of Bioinorganic Chemistry has grown significantly in recent years; now one of the major sub-disciplines of Inorganic Chemistry, it has also pervaded other areas of the life sciences due to its highly interdisciplinary nature. *Bioinorganic Chemistry: Inorganic Elements in the Chemistry of Life, Second Edition* provides a detailed introduction to the role of inorganic elements in biology, taking a systematic element-by-element approach to the topic. The second edition of this classic text has been fully revised and updated to include new structure information, emerging developments in the field, and an increased focus on medical applications of inorganic compounds. New topics have been added including materials aspects of bioinorganic chemistry, elemental cycles, bioorganometallic chemistry, medical imaging and therapeutic advances. Topics covered include: Metals at the center of photosynthesis Uptake, transport, and storage of essential elements Catalysis through hemoproteins Biological functions of molybdenum, tungsten, vanadium and chromium Function and transport of alkaline and alkaline earth metal cations Biomineralization Biological functions of the non-metallic inorganic elements Bioinorganic chemistry of toxic metals Biochemical behavior of radionuclides and medical imaging using inorganic compounds Chemotherapy involving non-essential elements This full color text provides a concise and comprehensive review of bioinorganic chemistry for advanced students of chemistry, biochemistry, biology, medicine and environmental science.

This book is ideal for use in a one-semester introductory course in physical chemistry for students of life sciences. The author's aim is to emphasize the understanding of physical concepts rather than focus on precise mathematical development or on actual experimental details. Subsequently, only basic skills of differential and integral calculus are required for understanding the equations. The end-of-chapter problems have both physicochemical and biological applications.

An updated, practical guide to bioinorganic chemistry *Bioinorganic Chemistry: A Short Course, Second Edition* provides the fundamentals of inorganic chemistry and biochemistry relevant to understanding bioinorganic topics. Rather than striving to provide a broad overview of the whole, rapidly expanding field, this resource provides essential background material, followed by detailed information on selected topics. The goal is to give readers the background, tools, and skills to research and study bioinorganic topics of special interest to them. This extensively updated premier reference and text: Presents review chapters on the essentials of inorganic chemistry and biochemistry Includes up-to-date information on instrumental and analytical techniques and computer-aided modeling and visualization programs Familiarizes readers with the primary literature sources and online resources Includes detailed coverage of Group 1 and 2 metal ions, concentrating on biological molecules that feature sodium, potassium, magnesium, and calcium ions Describes proteins and enzymes with iron-containing

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porphyrin ligand systems-myoglobin, hemoglobin, and the ubiquitous cytochrome metalloenzymes-and the non-heme, iron-containing proteins aconitase and methane monooxygenase Appropriate for one-semester bioinorganic chemistry courses for chemistry, biochemistry, and biology majors, this text is ideal for upper-level undergraduate and beginning graduate students. It is also a valuable reference for practitioners and researchers who need a general introduction to bioinorganic chemistry, as well as chemists who want an accessible desk reference.

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