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The field of Bioinorganic Chemistry is one of the major sub-disciplines of Inorganic Chemistry, it has also perverted other aspects of the field since its highly interdisciplinary nature. Bioinorganic Chemistry: Inorganic Elements in the Chemistry of Life, Second Edition provides a detailed introduction to this subject matter, explaining how bioinorganic chemistry is related to biology and the biological functions of metals. The book begins with introductory chapters, which together constitute an overview of the concepts, both chemical and biological, which are required to equip the reader for the field. In this new edition, the chapter on the fundamentals of coordination chemistry has been fully revised and updated to include new information, emerging developments in the field, and an increased focus on medical applications of inorganic compounds.

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The present text, written by a biochemist, with a long career experience in the field (particularly iron and copper) presents an introduction to this exciting and dynamic field. The book begins with introductory chapters, which together constitute an overview of the concepts, both chemical and biological, which are required to equip the reader for the field. In this new edition, the chapter on the fundamentals of coordination chemistry has been fully revised and updated to include new information, emerging developments in the field, and an increased focus on medical applications of inorganic compounds. It covers the following topics: From simple to complex compounds; Chemistry of metals; Inorganic synthesis; Radicals; reactions with metal complexes in aqueous solution, Metalloenzymes, Metalloproteins.

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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 focuses on the role of metals in biology and medicine. Bioinorganic chemistry is concerned with the role of metal ions and their compounds in biological processes, especially in terms of their effects on cellular metabolism.

Bioinorganic chemistry is primarily concerned with the role of metal atoms in biology and is a very active research field. However, even though such important structures of metalloenzymes are known, as the MoFeO₄ cluster of nitrogenase, Cu or Mn superoxide dismutase and plant photosynthetic reactions, bioinorganic chemistry provides an understanding of such problems as biomineralization and the production of advanced materials.

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Inorganic Chemistry for Geochemistry and Environmental Sciences - George W. Luther - 2016-08-01

The book offers insights into a vast range of applications, from lasers to synthesis. The Inorganic Chemistry: A Textbook series reflects the pivotal role of inorganic chemistry in modern science and technology. This book provides a modern, streamlined coverage appropriate for one-semester courses or independent study. It includes all of the necessary but none of the excessive information, preparing readers to move to more specific or applied topics in the field or to transition to more advanced classes. 

Metal Sulfur clusters play an essential role in living organisms through the unique character of sulfur-metal bonding. The new volume in prestigious Metallon in Life Sickle series, Metal Sulfur clusters are biologically active species with sulfur, their biosynthesis and biological functions in regulation of gene expression, catalysis of important redox reactions and protein structure arrangement.

Transition Metals and Sulfur - A Strong Relationship for Life - Martha Sora Torres - 2020-04-06

This book covers different aspects of inorganic chemistry in biochemistry with in-depth and up-to-date coverage. Topics include photosynthesis, nitrogen complexes and their therapeutic aspects in human beings and plants, carbon monoxide complexes and their therapeutic aspects in human beings and plants, and gaseous signaling molecules hydrogen sulfide and their domains in ophthalmic diseases and physiological implications in plants.

Biomineral Chemistry - Ram Charitra Murphy - 2021-09-07

This book covers different aspects of bioinorganic chemistry and provides an introduction to the unique character of sulfur-metal bonding. The new volume in prestigious Metallon in Life Sickle series, Metal Sulfur clusters are biologically active species with sulfur, their biosynthesis and biological functions in regulation of gene expression, catalysis of important redox reactions and protein structure arrangement.

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Bioinorganic Chemistry - Ei-ichi Ochiai - 2008

The importance of inorganic chemistry in biology, especially metal ion coordination, has gained considerable attention during the last decade. The latest knowledge on mineral ore genesis and the exploration of ore deposits Global demand for metals has risen considerably over the past decade. Geologists are studying the relationship between mineral ore genesis and the exploration of ore deposits, investigating the latest advances in mineral exploration. The volume, which features contributions from leading experts, highlights the latest advances in mineral exploration and mining. It covers various aspects of mineral exploration, including geology, geochemistry, and geophysics, and provides insights into the latest techniques and methodologies used in mineral exploration. The book is suitable for geologists, mineral explorers, and geophysics professionals, as well as for students and researchers in the field. It offers a comprehensive overview of the latest advances in mineral exploration and mining, making it an invaluable resource for anyone interested in this field.

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Inorganic Chemistry for For Dummies - Michael Roten - 2013-06-04

The easy way to get a grip on inorganic chemistry Inorganic chemistry can be an intimidating subject, but it doesn’t have to be! Whether you’re currently enrolled in an inorganic chemistry course at school or college or are an independent learner, Inorganic Chemistry For Dummies is the hands-on, easy-to-follow guide you can trust for fast, easy learning. Inorganic Chemistry For Dummies features a thorough introduction to the study of the synthesis and behavior of inorganic and organometallic compounds, covering the fundamental principles of inorganic and organometallic chemistry. It includes a chapter dedicated to the exploration of the key theories and concepts of the field. Provides information in an easy-to-use format. Covers topics you’re familiar with in a topic-by-topic format. Inorganic Chemistry for Dummies is the perfect and practical way to master inorganic chemistry.

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Lanthanide and Actinide Chemistry - Simon Cotton - 2013-03-15

This book offers insights into a vast range of applications, from lasers to synthesis. The Inorganic Chemistry: A Textbook series reflects the pivotal role of inorganic chemistry in modern science and technology. This book provides a modern, streamlined coverage appropriate for one-semester courses or independent study. It includes all of the necessary but none of the excessive information, preparing readers to move to more specific or applied topics in the field or to transition to more advanced classes. 

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Physical and spectroscopic techniques used to determine, examine and model structures fall within the purview of Structure and Bonding to the extent that the focus is not on the scientific results obtained and not on specialist information concerning the techniques themselves. Issues associated with the development of bonding models are not considered. The Series includes publications on the development of bond analytical techniques and the use of the Group IV-IX and transition metal chemical elements, and their applications. The Series is intended to serve as a reference for a broad readership, including students, educators, and professionals in various fields of science.

Inorganic Chemistry - James E. House - 2014-01-01

Inorganic Chemistry, Third Edition, emphasizes fundamental principles, including molecular structure, acid-base chemistry, coordination chemistry, ligand field theory and electronic structure, and solid-state chemistry. This new edition, significantly revised, presents these topics in a new framework, with each chapter ending with a set of end-of-chapter problems. The book is intended to serve as a successor for advanced undergraduate and graduate-level students enrolled in the Inorganic Chemistry course. Includes physical chemistry to show the relevant principles from bonding theory and thermodynamics. Emphasizes the chemical characteristics of main group elements and coordination chemistry. Presents chapters that open with narrative introductions, figures, tables and end-of-chapter problem sets. This new edition features updates throughout, with an emphasis on bioinorganic chemistry and a new chapter on nanostuctures and graphen. In addition, more in-text worked-out examples encourage active learning and prepare students for exams. This text is ideal for advanced undergraduate and graduate courses in the Inorganic Chemistry course. Concepts and principles from bonding theory and thermodynamics. Emphasizes the chemical characteristics of main group elements and coordination chemistry. Presents chapters that open with narrative introductions, figures, tables and end-of-chapter problem sets.

Metallography of Neuron Dengeneration - Henryk Kozlowski - 2007-03-11

Metallography has a cross disciplinary approach, applying the principles of chemistry to biological systems. Metallography of Neuron Dengeneration - Biological, Genetic and Genomic Aspects discusses the rapidly developing area of metals in the nervous system and their role in neurodegenerative disease, such as Parkinson’s, Alzheimer’s, and prion diseases. Written by leading experts in their field, each chapter combines elements of genetics, biochemistry and biological fundaments to highlight the differences in pathogenesis and treatment of diseases. Emphasizes the chemical characteristics of main group elements and coordination chemistry. Presents chapters that open with narrative introductions, figures, tables and end-of-chapter problem sets. This new edition features updates throughout, with an emphasis on bioinorganic chemistry and a new chapter on nanostuctures and graphen. In addition, more in-text worked-out examples encourage active learning and prepare students for exams. This text is ideal for advanced undergraduate and graduate-level students enrolled in the Inorganic Chemistry course. Includes physical chemistry to show the relevant principles from bonding theory and thermodynamics. Emphasizes the chemical characteristics of main group elements and coordination chemistry. Presents chapters that open with narrative introductions, figures, tables and end-of-chapter problem sets.

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Microscale Inorganic Chemistry - Z. Sanaei - 1991-01-04

A comprehensive treatment of the subject of microscale inorganic chemistry is provided through 45 laboratory experiments. These include experiments in main group and transition metal chemistry, instrumental techniques, kinetics, synthesis and the manipulation of air-sensitive materials.

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Applications of Density Functional Theory to Biological and Bioinorganic Chemistry - Nikolas Kaltsoyannis - 2004

This book presents a unique introduction into the field of bioinorganic chemistry through practical laboratory experiments. Topics include both modern bioinorganic chemistry such as metal models for metalloenzymes, biomarkers, metalloproteins and metal-based drugs. Each chapter contains a brief introduction, followed by detailed experimental procedures, completed with all necessary background information for the student as well as their instructors. A valuable supplement to standard textbooks of inorganic and bioinorganic chemistry and one that is designed for all instructors teaching laboratory courses in general and inorganic chemistry.

Applications of Density Functional Theory to Inorganic Chemistry II - Nikolas Kaltsoyannis - 2004

It is difficult to overestimate the impact that density functional theory has had on computational quantum chemistry over the last two decades. Indeed, this trend has seen it grow from little more than a theoretical curiosity to become a central tool in the computational chemist s arsenal. Arguably no area of chemistry has benefited more from the meteoric rise in density functional theory than inorganic chemistry. The technique has allowed the most accurate calculations of electronic structure and properties of inorganic systems that were previously accessible only with the inclusion of dynamic electron correlation. The term density functional theory was first introduced in 1964 by Hohenberg and Kohn to describe the exact relation between the electron density and the total energy of a system. More recently, it has become widely accepted as a powerful tool for the calculation of electronic properties of materials. This book is aimed at both students and researchers who wish to use density functional theory in inorganic chemistry. It provides an introduction to the subject, with a focus on the use of density functional theory in the calculation of electronic properties of inorganic systems. It is intended for advanced undergraduate and graduate-level students enrolled in the Inorganic Chemistry course.

Principles and Applications of Density Functional Theory in Inorganic Chemistry II - Nikolai Kaltsoyannis - 2004

This book presents a unique introduction into the field of bioinorganic chemistry through practical laboratory experiments. Topics include both modern bioinorganic chemistry such as metal models for metalloenzymes, biomarkers, metalloproteins and metal-based drugs. Each chapter contains a brief introduction, followed by detailed experimental procedures, completed with all necessary background information for the student as well as their instructors. A valuable supplement to standard textbooks of inorganic and bioinorganic chemistry and one that is designed for all instructors teaching laboratory courses in general and inorganic chemistry.

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Physical Methods in Bioinorganic Chemistry - Lawrence Q. - 2000-01-01

This text provides detailed coverage of physical methods used in bioinorganic chemistry. Individual chapters are devoted to electronic absorption spectroscopy, mass spectroscopy, gas chromatography, electron microprobing, or X-ray absorption spectroscopy.