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Edited by a highly regarded scientist and with contributions from sixteen international research groups, spanning Asia and North America, Rare Earth Coordination Chemistry: Fundamentals and Applications provides the first one-stop reference resource for important accomplishments in the area of rare earth. Consisting of two parts, Fundamentals and Applications, readers are armed with the systematic basic aspects of rare earth coordination chemistry and presented with the latest developments ...

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Abstract We have devised in this work a general synthetic strategy for preparation of single- and multicomponent rare-earth coordination polymer colloidal spheres (RE-CPCSs). This strategy is based on an integration of coordination chemistry and antisolvent effect for synchronized precipitation.

[Coordination Chemistry and Antisolvent Strategy to Rare ...](#)

<p></p><p>This work introduces into the chemistry, materials science and technology of Rare Earth Elements. The chapters by experienced lecturers describe comprehensively the recent studies of their characteristics, properties and applications in functional materials. Due to the broad range of covered topics as hydrogen storage materials, LEDs or permanent magnets this work gives an up-to ...

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As one of the first books to present such a comprehensive treatment of the topic, Rare Earth Coordination Chemistry: Fundamentals and Applications is ideal for postgraduates and researchers in inorganic chemistry, particularly those focusing on rare earth chemistry or lanthanide chemistry. Developed for classroom use, the book has the potential to become a main text for an advanced course on F-block.

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Coordination Chemistry From the chemical point of view, Ln III ions behave like hard Lewis acids and their bonding is essentially electrostatic, with small covalent contributions. Generally speaking, therefore, they prefer to form complexes with oxygen donors than with softer donors like nitrogen or sulfur.

Edited by a highly regarded scientist and with contributions from sixteen international research groups, spanning Asia and North America, Rare Earth Coordination Chemistry: Fundamentals and Applications provides the first one-stop reference resource for important accomplishments in the area of rare earth. Consisting of two parts, Fundamentals and Applications, readers are armed with the systematic basic aspects of rare earth coordination chemistry and presented with the latest developments in the applications of rare earths. The systematic introduction of basic knowledge, application technology and the latest developments in the field, makes this ideal for readers across both introductory and specialist levels.

Lanthanides are of great importance for the electronic industries, this new book (from the EIBC Book Series) provides a comprehensive coverage of the basic chemistry, particularly inorganic chemistry, of the lanthanoid elements, those having a 4f shell of electrons. A chapter is describing the similarity of the Group 3 elements, Sc, Y, La, the group from which the lanthanoids originate and the group 13 elements, particularly aluminum, having similar properties. Inclusion of the group 3 and 13 elements demonstrates how the lanthanoid elements relate to other, more common, elements in the Periodic Table. Beginning chapters describe the occurrence and mineralogy of the elements, with a focus on structural features observed in compounds described in later chapters. The majority of the chapters is organized by the oxidation state of the elements, Ln(0), Ln(I), Ln(III), and Ln(IV). Within this organization the chapters are further distinguished by type of compound, inorganic (oxides and hydroxides, aqueous speciation, halides, alkoxides, amides and thiolates, and chelates) and organometallic. Concluding chapters deal with diverse and critically important applications of the lanthanoids in electronic and magnetic materials, and medical imaging.

Corrosion inhibitors are an important method for minimizing corrosion; however traditional inhibitors such as chromates pose environmental problems. Rare earth metals provide an important, environmentally-friendly alternative. This book provides a comprehensive review of current research and examines how rare earth metals can be used to prevent corrosion and applied to protect metals in such industries as aerospace and construction. Chapter 1 begins by examining the important need to replace chromate, and then goes on to discuss the chemistry of the rare earth metals and their related compounds. Chapter 2 considers the techniques that can be used to identify corrosion inhibition mechanisms and to test the levels of protection offered to different metals by rare earth compounds. Subsequent chapters consider in more detail how rare earth elements can be used as corrosion inhibitors in different forms and for different metals. This includes discussion on the potential of rare earth elements for self-healing, tunable and multifunctional coatings. Finally, chapter 10 considers the cost and availability of the rare earths and the potential health and environmental risks associated with extracting them. Provides a review of current research and examines how rare earth metals can be used to prevent corrosion and applied to protect metals in such industries as aerospace and construction. Includes discussion on the potential of rare earth elements for self-healing, tunable and multifunctional coatings. Considers the cost and availability of the rare earths and the potential health and environmental risks associated with extracting them.

This work introduces into the chemistry, materials science and technology of Rare Earth Elements. The chapters by experienced lecturers describe comprehensively the recent studies of their characteristics, properties and applications in functional materials. Due to the broad range of covered topics as hydrogen storage materials, LEDs or permanent magnets this work gives an up-to-date presentation of this fascinating research.

The Lanthanides and Actinides: Synthesis, Reactivity, Properties and Applications constitutes an introduction to and comprehensive coverage of f-block chemistry encompassing the following areas: periodicity, natural occurrence and extraction, separations, electronic structure, coordination chemistry, organometallic chemistry, small molecule activation, catalysis, organic synthesis applications, magnetism, spectroscopy, computation, materials, photonics, solar cell technology, biological imaging, and technological applications. Under these subject areas the book provides a broad but deep coverage, providing basic overviews as well as detailed chapters on specific areas. This book, targeted at academics, postgraduates and advanced undergraduates, will serve as an ideal introductory text and key reference work to the Lanthanides and Actinides.

The handbook comprehensively covers the field of inorganic photochemistry from the fundamentals to the main applications. The first section of the book describes the historical development of inorganic photochemistry, along with the fundamentals related to this multidisciplinary scientific field. The main experimental techniques employed in state-of-art studies are described in detail in the second section followed by a third section including theoretical investigations in the field. In the next three sections, the photophysical and photochemical properties of coordination compounds, supramolecular systems and inorganic semiconductors are summarized by experts on these materials. Finally, the application of photoactive inorganic compounds in key sectors of our society is highlighted. The sections cover applications in bioimaging and sensing, drug delivery and cancer therapy, solar energy conversion to electricity and fuels, organic synthesis, environmental remediation and optoelectronics among others. The chapters provide a concise overview of the main achievements in the recent years and highlight the challenges for future research. This handbook offers a unique compilation for practitioners of inorganic photochemistry in both industry and academia.

House of Descriptive Inorganic Chemistry, Third Edition, provides thoroughly updated coverage of the synthesis, reactions, and properties of elements and inorganic compounds. Ideal for the one-semester (ACS-recommended) sophomore or junior level course in descriptive inorganic chemistry, this resource offers a readable and engaging survey of the broad spectrum of topics that deal with the preparation, properties, and use of inorganic materials. Using rich graphics to enhance content and maximize learning, the book covers the chemical behavior of the elements; acid-base chemistry; coordination chemistry; organometallic compounds; and numerous other topics to provide a coherent treatment of the field. The book pays special attention to key subjects such as chemical bonding and Buckminster Fullerenes, and includes new and expanded coverage of active areas of research, such as bioinorganic chemistry, green chemistry, redox chemistry, nanostructures, and more. Highlights the Earth's crust as the source of most inorganic compounds and explains the transformations of those compounds into useful products Provides a coherent treatment of the field, covering the chemical behavior of the elements, acid-base chemistry, coordination chemistry, and organometallic compounds Connects key topics to real world industrial applications, such as in the area of nanostructures Includes expanded coverage on bioinorganic chemistry, green chemistry, redox chemistry, superacids, catalysis, and other areas of recent development

Handbook on the Physics and Chemistry of Rare Earths is a continuing series of books covering all aspects of rare earth science, including chemistry, life sciences, materials science, and physics. The handbook emphasizes rare earth elements [Sc, Y and the lanthanides (La through Lu)] but, when relevant, information also is included about the closely related actinide elements. The individual chapters are comprehensive, broad, up-to-date critical reviews written by highly experienced invited experts. The series, which was started in 1978 by Professor Karl A. Gschneidner, Jr., combines and integrates both the fundamentals and applications of these elements and now publishes two volumes a year. Covers all aspects of rare earth sciences, including chemistry, life sciences, materials science, and physics. Includes contributions from highly experienced, invited experts Provides comprehensive, up-to-date critical reviews of developments in the field Combines and integrates both the fundamentals and applications of rare earth elements

This book provides an overview of the origins and evolution of the periodic system from its prehistory to the latest synthetic elements and possible future additions. The periodic system of the elements first emerged as a comprehensive classificatory and predictive tool for chemistry during the 1860s. Its subsequent embodiment in various versions has made it one of the most recognizable icons of science. Based primarily on a symposium titled "150 Years of the Periodic Table" and held at the August 2019 national meeting of the American Chemical Society, this book describes the origins of the periodic law, developments that led to its acceptance, chemical families that the system struggled to accommodate, extension of the periodic system to include synthetic elements, and various cultural aspects of the system that were celebrated during the International Year of the Periodic Table.

Pollution of waters by toxic metals is accelerating worldwide due to industrial and population growth, notably in countries having poor environmental laws, resulting in many diseases such as cancer. Classical remediation techniques are limited. This books reviews new, advanced or improved techniques for metal removal, such as hybrid treatments, nanotechnologies and unconventional adsorbents, e.g. metal-organic frameworks. Contaminants include rare earth elements, arsenic, lead, cadmium, chromium, copper and effluents from the electronic, textile, agricultural and pharmaceutical industries.

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