

Modern Aspects of Rare Earths and their Complexes

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Modern Aspects of Rare Earths and their Complexes Vinny R. Sastri, J.R. Perumareddi, V. Ramachandra Rao, G.V.S. Rayudu, J.-C. G. Bünzli, 2003-12-09 In order to use rare earths successfully in various applications a good understanding of the chemistry of these elements is of paramount importance Nearly three to four decades have passed since titles such as The Rare Earths edited by F H Spedding and A H Daane The chemistry of the Rare Earth Elements by N E Topp and Complexes of the Rare Earths by S P Sinha were published There have been many international conferences and symposia on rare earths as well as the series of volumes entitled Handbook of Physics and Chemistry of Rare Earths edited by K A Gschneidner and L Evring Thus there is a need for a new title covering modern aspects of rare earth complexes along with the applications The present title consists of twelve chapters 1 Introduction2 General aspects3 Stability of complexes4 Lanthanide complexes5 Structural chemistry of lanthanide compounds Organometallic complexes Kinetics and mechanisms of rare earths complexation8 Spectroscopy of lanthanide complexes9 Photoelectron spectroscopy of rare earths10 Lanthanide NMR shift reagents11 Environmental ecological biological aspects12 Applications The authors studied in schools headed by pioneers in rare earth chemistry have a combined experience of one hundred and fifty years in inorganic chemistry rare earth complex chemistry nuclear and radiochemistry of rare earths and supramolecular chemistry. The present monograph is a product of Modern Aspects of Rare Earths and Their Complexes ,2003 this rich experience Handbook on the Physics and Chemistry of Rare Earths, 2015-10-14 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 science 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 Critical and Rare Earth Elements Abhilash, Ata Akcil, 2019-11-11 This book is aimed to compile the distribution of rare earth elements in various resources with their processing from secondary resources It includes details of various processes developed for extraction of rare earth elements from varied raw materials ranging from e wastes tailings process wastes and residues It emphasizes importance of processing of the secondary resources to assist environmental remediation of such untreated wastes and get finished products It covers all aspects of rare metals and rare earth metals in one volume covering extraction separation and recycling of secondary resources for extraction of these metals along with relevant case studies The Rare Earth Elements

David A. Atwood, 2013-02-19 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 II Ln III and Ln IV Within this organization the chapters are further distinguished by type of compound inorganic oxides and hydroxides agueous 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 Modern Applications of Lanthanide Luminescence Ana de Bettencourt-Dias, 2022-08-08 This volume builds upon the successful book Lanthanide Luminescence published in the Springer Series on Fluorescence in 2011 Since its publication the field of lanthanide spectroscopy and the areas in which the light emission properties of the f elements are used have experienced substantial advances The luminescence properties of lanthanide ions make them unique candidates for a myriad of optical applications. This book highlights and reviews the latest research in areas ranging from luminescence thermometry to imaging sensing and photonic applications of these fascinating elements Each chapter provides a comprehensive introduction to a specific area of application of lanthanide luminescence and extensively reviews seminal papers and current research literature Given its interdisciplinary scope the book appeals to scientists and advanced students in physics chemistry and materials science interested in compounds and materials with optical properties Rare-Earth-Activated Phosphors Vikas Dubey, Neha Dubey, Marta Michalska Domanska, M Jayasimhadri, 2022-06-29 Rare Earth Activated Phosphors Chemistry and Applications outlines important fundamentals and properties and explores successful application that address key problems across the sciences Sections introduce phosphors and luminescence explore their properties characteristics synthesis and degradation and highlight key applications across telecommunications lighting electroluminescent devices bio analytical sensors bio imaging set ups drug delivery and sustainable energy devices Drawing on the knowledge of an expert team of contributors the book provides useful insight into successfully harnessing the properties of rare earth activated phosphors for a range of important applications Rare earth nano phosphors offer an interesting array of characteristics including sharp emission bands exceptional optical damage thresholds low toxicity high selectivity and stability and long luminescence lifetimes Understanding these properties can help researchers effectively manipulate them for a range of important applications Provides a good introduction to the useful properties and characteristics of rare earth activated phosphors Analyzes the use of rare earth activated phosphors for a

broad variety of important applications bridging the gap between theory and application Encourages further discourse and development for improving the energy efficiency of devices based on rare earth activated phosphors Lanthanide-Based Multifunctional Materials, 2018-06-26 Lanthanide Based Multifunctional Materials From OLEDs to SIMs serves as a comprehensive and state of the art review on these promising compounds delivering a panorama of their extensive and rapidly growing applications After an introductory chapter on the theoretical description of the optical and magnetic behaviour of lanthanides and on the prediction of their properties by ab initio methods four chapters are devoted to lanthanide based OLEDs including the latest trends in visible emitters the emerging field of near infrared emitters and the first achievements attained in the field of chiral OLEDs The use of lanthanide complexes as molecular magnets spreads over another two chapters which explain the evolution of 4f elements based SIMs and the most recent advances in heterometallic 3d 4f SMMs Other very active research areas are covered in the remaining five chapters dedicated to lanthanide doped germanate and tellurite glasses luminescent materials for up conversion luminescent thermosensors multimodal imaging and therapeutic agents and chemosensors The book is aimed at academic and industrial researchers undergraduates and postgraduates alike and is of particular interest for the Materials Science Applied Physics and Applied Chemistry communities Includes the latest progress on lanthanide based materials and their applications in OLEDs SIMs doped matrices up conversion thermosensors theragnostics and chemosensors Presents basic and applied aspects of the Physics and Chemistry of lanthanide compounds as well as future lines of action Covers successful examples of devices and proofs of Nanocomposites, Nanophotonics, concept and provides guidelines for the rational design of new materials Nanobiotechnology, and Applications Olena Fesenko, Leonid Yatsenko, 2014-08-11 This book presents some of the latest achievements in nanotechnology and nanomaterials from leading researchers in Ukraine Europe and beyond It features contributions from participants in the 2nd International Summer School Nanotechnology From Fundamental Research to Innovations and International Research and Practice Conference Nanotechnology and Nanomaterials NANO 2013 which were held in Bukovel Ukraine on August 25 September 1 2013 These events took place within the framework of the European Commission FP7 project Nanotwinning and were organized jointly by the Institute of Physics of the National Academy of Sciences of Ukraine University of Tartu Estonia University of Turin Italy and Pierre and Marie Curie University France Internationally recognized experts from a wide range of universities and research institutions share their knowledge and key results on topics ranging from nanooptics nanoplasmonics and interface studies to energy storage and biomedical applications Luminescence of Lanthanide Ions in Coordination Compounds and Nanomaterials Ana de Bettencourt-Dias, 2014-11-17 This comprehensive book presents the theoretical principles current applications and latest research developments in the field of luminescent lanthanide complexes a rapidly developing area of research which is attracting increasing interest amongst the scientific community Luminescence of Lanthanide Ions in Coordination

Compounds and Nanomaterials begins with an introduction to the basic theoretical and practical aspects of lanthanide ion luminescence and the spectroscopic techniques used to evaluate the efficiency of luminescence Subsequent chapters introduce a variety of different applications including Circularly polarized luminescence Luminescence bioimaging with lanthanide complexes Two photon absorption of lanthanide complexes Chemosensors Upconversion luminescence Excitation spectroscopy Heterometallic complexes containing lanthanides Each chapter presents a detailed introduction to the application followed by a description of experimental techniques specific to the area and an extensive review of recent literature This book is a valuable introduction to the literature for scientists new to the field as well as providing the more experienced researcher with a comprehensive resource covering the most relevant information in the field a one stop shop for all key references Lanthanide-Based Wavelength Conversion Materials Yasuchika Hasegawa, Yuichi Kitagawa, Sunao Shoji, 2024-10-04 This book introduces optical wavelength conversion materials using luminescent lanthanide complexes Their optical wavelength conversion properties are applied to color tuning LED materials UV photon energy conversion for solar cells and plant growth acceleration for future green house application In this book the fundamental wavelength conversion mechanism recent trends and advanced research progress of optical wavelength conversion materials are explained and discussed using historical and recent academic reports Furthermore advanced future applications using luminescent lanthanide complexes are introduced Rare Earth-Based Corrosion Inhibitors Maria Forsyth, Bruce Hinton, 2014-08-12 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 Nanoplasmonics, Nano-Optics, Nanocomposites, and Surface Studies Olena Fesenko, Leonid Yatsenko, 2015-07-08 This book highlights the most recent

advances in nano science from leading researchers in Ukraine Europe and beyond It features contributions from participants of the 3rd International Summer School Nanotechnology From Fundamental Research to Innovations held in Yaremche Ukraine on August 23 26 2014 and of the 2nd International NANO 2014 Conference held in Lviv Ukraine on August 27 30 2014 These events took place within the framework of the European Commission FP7 project Nano twinning and were organized jointly by the Institute of Physics of the National Academy of Sciences of Ukraine University of Tartu Estonia University of Turin Italy and Pierre and Marie Curie University France Internationally recognized experts from a wide range of universities and research institutions share their knowledge and key results in the areas of nanocomposites and nanomaterials nanostructured surfaces microscopy of nano objects nano optics and nano photonics nano plasmonics nano chemistry nano biotechnology and surface enhanced spectroscopy Covers nanocomposites nano structured surfaces and nano biotechnology Presents state of the art advances in nano plasmonics nanomaterials characterization and surface enhanced spectroscopy Represents essential reading for advanced undergraduate and graduate students through practicing university and industry researchers **Inorganic Reactions in Water** Ronald Rich, 2007-12-22 Organized to facilitate reference to the reagents involved this book describes the reactions of the elements and their mostly simpler compounds primarily inorganic ones and primarily in water The book makes available some of the more comprehensive coverage of descriptive aqueous chemistry found in older sources but now corrected and interpreted with the added insights of the last seven Lanthanides Series Determination by Various Analytical Methods Mohammad Reza Ganjali, Vinod Kumar decades Gupta, Farnoush Faridbod, Parviz Norouzi, 2016-02-25 Lanthanides Series Determination by Various Analytical Methods describes the different spectroscopic and electrochemical methods used for the determination and measurement of lanthanides Numerous examples of determination methods used in real sample analysis are gathered and explained and the importance of lanthanides as applied in chemical industry agriculture clinical and pharmaceutical industry and biology is discussed with many applications and recent advantages given Written by world leading experts in research on lanthanide determination Discusses determination methods that range from very advanced and expensive techniques to simple and inexpensive methods A single source of information for a broad collection of lanthanide detection techniques and applications Includes a complete list of reports and patents on lanthanide determination Discusses both advantages and disadvantages of each determination method giving a well balanced overview Tomorrow's Chemistry Today Bruno Pignataro, 2009-09-22 Providing a glimpse into the future the young scientists contributing here were considered to be the most important for tomorrow's chemistry and materials science They present the state of the art in their particular fields of research with topics ranging from new synthetic pathways and nanotechnology to green chemistry Of major interest to organic chemists materials scientists and biochemists The Chemistry of Metal Enolates, 2 Volume Set Jacob Zabicky, 2009-05-06 Metal Enolates form a class of compounds that have recently received much study because of their part in the important C C bond forming

aldol reaction Focusing on this important class of compounds in organic synthesis The Chemistry of Metal Enolates features contributions on all aspects of Metal Enolate chemistry from the world's leading experts Delivering the exceptional quality that s expected from the Patai Series this text is essential reading for organic chemists

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Interplay between Metal Ions and Nucleic Acids Astrid Sigel,Helmut Sigel,Roland KO Sigel,2012-01-02 Interplay between Metal Ions and Nucleic Acids provides in an authoritative and timely manner in 12 stimulating chapters written by 24 internationally recognized experts from 8 nations and supported by nearly 1500 references about 20 tables and 125 illustrations many in color a most up to date view on metal ion nucleic acid interactions the characterization of which is covered in solution and in the solid state The volume concentrates on modern developments encompassing topics in the wide range from G quadruplexes via DNAzymes catalysis at the DNA scaffold and metal mediated base pairs to peptide nucleic acids PNAs being thus of relevance e g for chemistry and nanotechnology but also for molecular biology and genetic diagnostics

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Adopting the Tune of Appearance: An Mental Symphony within Modern Aspects Of Rare Earths And Their Complexes

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web the ballistic pendulum physics 110 laboratory in this experiment you will determine the muzzle velocity of a gun using two di erent methods the rst method consists of ring a ball horizontally from the tabletop by measuring the range of the ball in the second part of the experiment the ball will be red into the ballistic pendulum shown above and

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web the ballistic pendulum measures the velocity of projectiles through the conservation of linear momentum and mechanical energy in this experiment we can determine the initial velocities of the projectile motion by measuring the distance on which the center of mass of the projectile rises through the law of conservation of linear momentum and

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web to obtain the velocity of a projectile using a ballistic pendulum the length of the pendulum had to be measured as well as the mass of the pendulum projectile and the pendulum swing angle there were two methods used to complete this experiment and obtain the value of the velocity

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web 1 introduction in the ballistic pendulum experiment a small ball is shot from a launcher into a barrel at the endof rigid arm pendulum the ball lodges itself in the barrel and they swing together up to somemaximum height energy is not conserved in the completely inelastic collision but linear momentum is

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web theory a ballistic pendulum is a device that can be used to measure the speed of projectiles using both conservation of

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momentum and conservation of energy it contains a swinging pendulum and a spring gun the gun shoots out the projectile ball bearing into the bob creating an inelastic collision