



Handbook on the Physics and Chemistry of Rare Earths Volume 35

Handbook On The Physics And Chemistry Of Rare Earths

Volume 35 Volume 35

William J. Evans, Timothy P. Hanusa



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Handbook on the Physics and Chemistry of Rare Earths, 2005-08-02 The rare earths play a unique role in science These seventeen related elements afford a panoply of subtle variations deriving from the systematic development of their electronic configurations allowing a test of theory with excellent resolution In contrast they find widespread use in even the most mundane processes such as steel making for polishing materials and gasoline cracking catalysts In between are exotic uses such as TV screen phosphors lasers high strength permanent magnets and chemical probes This multi volume handbook covers the entire rare earth field in an integrated manner Each chapter is a comprehensive up to date critical review of a particular segment of the field The work offers the researcher and graduate student alike a complete and thorough coverage of this fascinating field Authoritative Comprehensive Up to date Critical Reliable **Handbook on the Physics and Chemistry of Rare Earths** J.-C. G. Bünzli, Vitalij K. Pecharsky, 2012-12-28 The rare earths represent a group of chemical elements the lanthanides together with scandium and yttrium which exhibit similar chemical properties They are strategically important to developed and developing nations as they have a wide variety of applications in catalysis the defense industry aerospace the materials and life sciences and in sustainable energy technologies The Handbook on the Physics and Chemistry of the Rare Earths is a continuing authoritative series that deals with the science and technology of the rare earth elements in an integrated manner Each chapter is a comprehensive up to date critical review of a particular segment of the field The work offers the researcher and graduate student a complete and thorough coverage of this fascinating field Individual chapters are comprehensive broad critical reviews Contributions are written by highly experienced invited experts Gives an up to date overview of developments in the field **Handbook on the Physics and Chemistry of Rare Earths**. Volume, 2020-04-06 In keeping with the tradition of the Handbook volume 35 covers a wide diversity of topics involving the rare earth elements The topics range from solid oxides for advanced energy efficient electrical power generation Chapter 223 to the oxo selenate members of the vast family of complex oxo anions to organic beta diketonate complexes Chapter 225 to the utilization of organic complexes for molecular recognition and sensing Chapter 226 Natsuko Sakai Katsuhiko Yamaji Teruhisa Horita Yue Ping Xiong and Harumi Yokokawa examine the role of yttria stabilized zirconia R2O3 ceria rare earth alkaline earth manganites and rare earth cobaltites chromates and titanates as solid oxide fuel cell SOFC components i e the electrolyte anode cathode and interconnects Mathias Wickleder s review focuses on one particular family of oxo compounds which has been studied extensively in the past few years because of their rich structural chemistry complex thermal behaviors and dual oxidation states selenites or oxo selenate IV and selenates or oxo selenate VI Koen Binnemans points out that the rare earth b diketonates which have been known for about 100 years are one of the most extensively investigated rare earth coordination compounds This popularity is due to the fact that they are easily synthesized readily available from commercial sources and have many applications Satoshi Shinoda Hiroyuki Miyake and

Hiroshi Tsukube have summarized the recent advances in the chemistry of rare earth complexes in molecular recognition and sensing technology When a lanthanide containing receptor binds with a given substrate specific interactions may occur in the inner and or outer coordination sphere s and by monitoring these resultant interactions precise information can be obtained about compounds i e amino acids proteins

Phosphors Sanjay J. Dhoble, B. Deva Prasad Raju, Vijay Singh, 2018-05-11 Rare earth doped luminescent materials play an integral role in modern life because of their tremendous applications ranging from scintillators color displays fluorescent lamps and intensifying screens to dosimetry of ionizing radiations Written and edited by prominent luminescence researchers this book details cutting edge research on luminescence materials and is illustrated throughout with excellent figures and references It will appeal to anyone involved in luminescence research and its applications especially advanced undergraduate graduate and postgraduate level students of spectroscopy solid state physics luminescence material synthesis and optical properties and researchers working on the synthesis of optical materials the characterization of luminescence materials solid state lighting radiation dosimetry luminescence and phosphor applications

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 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

Cryocoolers 11 Ronald Grierson Ross, Ronald G. Jr. Ross, 2001-09-30 Composed of papers written by leading engineers and scientists in the field this valuable collection reports the most recent advances in cryocooler development contains extensive performance test results and comparisons and relates the latest experience in integrating cryocoolers into advanced 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

Handbook Of High Temperature Compounds: Properties, Production, Applications

,1990-08-01 This book contains the most used methods of powder preparation and manufacture of articles data on the explosibility flammability and toxicity of refractory compound powders Topics include the properties of borides carbides nitrides silicides sulphides selenides and tellurides

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

Extractive Metallurgy of Rare Earths

Nagaiyar Krishnamurthy,2015-12-02 New Edition Now Covers Recycling Environmental Issues and Analytical Determination Employing four decades of experience in the rare metal and rare earths industry the authors of Extractive Metallurgy of Rare Earths Second Edition present the entire subject of rare earth elements with depth and accuracy This second edition updates the most impor

Application of LC-MS/MS in the Mycotoxins Studies Laura Gámiz-Gracia,Ana M. García-Campaña,Natalia Arroyo-Manzanares,2020-06-17 Mycotoxins are secondary metabolites produced by the fungi of different species mainly *Aspergillus* *Fusarium* and *Penicillium* with toxic effects for humans and animals These mycotoxins can contaminate food and feed The European Union EU has established the maximum permitted or recommended levels for well known mycotoxins in different foodstuffs However there are other mycotoxins that are not included in the regulations the emerging mycotoxins whose toxicity is still not clear and the modified or masked mycotoxins produced as a consequence of a detoxification strategy of the host plant of the fungus or during food processing These mycotoxins could pose a risk and should also be taken into account In order to assure consumers health analytical methods for the accurate determination of mycotoxins in different food matrices and feeds are required In this sense liquid chromatography tandem mass spectrometry LC MS MS is a powerful tool for their unique identification and quantification Moreover the use of high resolution mass spectrometry HRMS allows one to identify novel mycotoxins and targeted untargeted approaches for study This Special Issue compiles recent applications of LC MS MS in mycotoxin studies

as well as the development and validation of new analytical methods for their identification and quantification in different food matrices and feed occurrence studies and the biomonitoring of mycotoxins and their metabolites in biological fluids

Ion Exchange and Solvent Extraction Bruce A. Moyer, 2009-08-19 The growth in the world's nuclear industry motivated by peaking world oil supplies concerns about the greenhouse effect and domestic needs for energy independence has resulted in a heightened focus on the need for next generation nuclear fuel cycle technologies Ion Exchange and Solvent Extraction A Series of Advances Volume 19 provides a com *Laser Spectroscopy of Solids II* William M. Yen, 2006-01-21

Laser based optical spectroscopies are powerful and versatile techniques that are continuing to evolve and find new applications This book presents reviews of recent progress in our understanding of the spectra and dynamical processes of optically excited states of condensed matter focusing on the advances made possible by the application of laser based optical spectroscopies Reviews are given of the optical properties of crystalline and amorphous semiconducting materials and structures the properties of defect centers in insulators two photon nonlinear processes in insulators optical energy diffusion in inorganic materials and relaxation in organic materials The individual chapters emphasize the methodology common to the various investigations The volume is designed to be suitable as an introduction to applied laser spectroscopy of solids as well as providing an update on the status of the field

Ionic Liquids Barbara Kirchner, 2009-12-01 Ionic liquids will never find application in industry I don't understand this fad for ionic liquids and there is no widespread interest in these systems are just three of quotes from the reports of referees for research proposals that I have received over the years I wonder what these people think today There are currently at least nine large scale industrial uses of ionic liquids including we now recognise the production of Caprolactam a monomer for the production of nylon 6 1 There has been a steady increase in the interest in ionic liquids for well over a decade and last year the number of papers and patents including ionic liquids was counted in the thousands This remarkable achievement has been built on the hard work and enthusiasm first of a small band of devotees but now of huge numbers of scientists all over the world who do not see themselves as specialists in ionic liquids The ionic liquids field continues to develop at an incredible rate No sooner do I think that I am on top of the literature than it turns out that a whole new area of work has emerged without me noticing Things that were once supposedly impossible in ionic liquids such as measuring the ^1H NMR of solutes are now widely applicable see Chapter 8 Hence collected volumes such as this are very welcome

Perovskite Oxide for Solid Oxide Fuel Cells Tatsumi Ishihara, 2009-06-12 Fuel cell technology is quite promising for conversion of chemical energy of hydrocarbon fuels into electricity without forming air pollutants There are several types of fuel cells polymer electrolyte fuel cell PEFC phosphoric acid fuel cell PAFC molten carbonate fuel cell MCFC solid oxide fuel cell SOFC and alkaline fuel cell AFC Among these SOFCs are the most efficient and have various advantages such as flexibility in fuel high reliability simple balance of plant BOP and a long history Therefore SOFC technology is attracting much attention as a power plant and is now close to marketing as a combined heat and power

generation system From the beginning of SOFC development many perovskite oxides have been used for SOFC components for example LaMnO₃ based oxide for the cathode and λ -LaCrO₃ for the interconnect are the most well known materials for SOFCs The 3 current SOFCs operate at temperatures higher than 1073 K However lowering the operating temperature of SOFCs is an important goal for further SOFC development Reliability durability and stability of the SOFCs could be greatly improved by decreasing their operating temperature In addition a lower operating temperature is also beneficial for shortening the startup time and decreasing energy loss from heat radiation For this purpose faster oxide ion conductors are required to replace the conventional Y₂O₃ stabilized ZrO₂ electrolyte A new class of electrolytes such as LaGaO₃ is considered to be highly useful for intermediate temperature SOFCs

The Heaviest Metals William J. Evans, Timothy P. Hanusa, 2019-01-08 An authoritative survey of the science and advanced technological uses of the actinide and transactinide metals The Heaviest Metals offers an essential resource that covers the fundamentals of the chemical and physical properties of the heaviest metals as well as the most recent advances in their science and technology The authors noted experts in the field offer an authoritative review of the actinide and transactinide elements i.e. the elements from actinium to lawrencium as well as rutherfordium through oganesson the current end of the periodic table element 118 The text explores the history of the metals their occurrence and issues of production and covers a broad range of chemical subjects including environmental concerns and remediation approaches The authors also offer information on the most recent and emerging applications of the metals such as in superconducting materials catalysis and research into medical diagnostics This important resource Provides an overview of the science and advanced technological uses of the actinide and transactinide metals Describes the basic chemical and physical properties of the heaviest metals and discusses the challenges and opportunities for their technological applications Contains accessible information on the fundamental features of the heaviest metals special requirements for their experimental study and the critical role of computational characterization of their compounds Highlights the most current and emerging applications in areas such as superconducting materials catalysis nuclear forensics and medicine Presents vital contemporary issues of the heaviest metals Written for graduate students and researchers working with the actinide and transactinide elements industrial and academic inorganic and nuclear chemists and engineers The Heaviest Metals is a comprehensive volume that explores the fundamental chemistry and properties of the heaviest metals and the challenges and opportunities associated with their present and emerging technological uses

Precambrian Ophiolites and Related Rocks T.M. Kusky, 2004-10-26 Recent developments have shown that many full and partial ophiolites are preserved in Precambrian cratons This book provides a comprehensive description and discussion of the field aspects geochemistry geochronology and structure of the best of these ophiolites It also presents syntheses of the characteristics of ophiolites of different ages and an analysis of what the characteristics of these ophiolites mean for the thermal and chemical evolution of the earth This title emphasizes new studies of Precambrian Geology that have documented

ophiolites ophiolitic fragments and ophiolitic melanges in many Precambrian terranes Each chapter focuses on individual Precambrian ophiolites or regions with numerous Precambrian ophiolites and covers field aspects petrology geochemistry geochronology and other descriptive aspects of these ophiolites it also delves into more theoretical and speculative aspects about the interpretation of the significance of these ancient ophiolites *Data compilations in physics* Heinrich Behrens,1976 **Sc, Y, La-Lu Rare Earth Elements** ,2013-11-11 Molecular Nanomagnets and Related Phenomena Song Gao,2015-02-20 The series Structure and Bonding publishes critical reviews on topics of research concerned with chemical structure and bonding The scope of the series spans the entire Periodic Table and addresses structure and bonding issues associated with all of the elements It also focuses attention on new and developing areas of modern structural and theoretical chemistry such as nanostructures molecular electronics designed molecular solids surfaces metal clusters and supramolecular structures 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 on the scientific results obtained and not on specialist information concerning the techniques themselves Issues associated with the development of bonding models and generalizations that illuminate the reactivity pathways and rates of chemical processes are also relevant The individual volumes in the series are thematic The goal of each volume is to give the reader whether at a university or in industry a comprehensive overview of an area where new insights are emerging that are of interest to a larger scientific audience Thus each review within the volume critically surveys one aspect of that topic and places it within the context of the volume as a whole The most significant developments of the last 5 to 10 years should be presented using selected examples to illustrate the principles discussed A description of the physical basis of the experimental techniques that have been used to provide the primary data may also be appropriate if it has not been covered in detail elsewhere The coverage need not be exhaustive in data but should rather be conceptual concentrating on the new principles being developed that will allow the reader who is not a specialist in the area covered to understand the data presented Discussion of possible future research directions in the area is welcomed Review articles for the individual volumes are invited by the volume editors Readership research scientists at universities or in industry graduate students Special offer for all customers who have a standing order to the print version of Structure and Bonding we offer free access to the electronic volumes of the Series published in the current year via SpringerLink

Whispering the Strategies of Language: An Emotional Journey through **Handbook On The Physics And Chemistry Of Rare Earths Volume 35 Volume 35**

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