

Binary Rare Earth Oxides

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Binary Rare Earth Oxides

**Srikanta Moharana, Santosh Kumar
Satpathy, Tuan Anh Nguyen, Ram K.
Gupta, Parvej Ahmad Alvi**

Binary Rare Earth Oxides:

Binary Rare Earth Oxides G. Adachi, Nobuhito Imanaka, Z.C. Kang, 2006-07-10 Binary Rare Earth Oxides is the first book in the field of rare earth oxides that provides coverage from the basic science through to recent advances This book introduces the unique characteristics of the binary rare earth oxides with their chemistry physics and applications It provides a comprehensive review of all the characteristics of rare earth oxides essential for scientists and engineers involved with rare earths oxides inorganic materials ceramics and structures The binary rare earth oxides bring us a variety of interesting characteristics Understanding their fundamental mechanisms builds a bridge between solid state chemistry and materials science The book begins with a brief introduction to binary rare earth oxides their physical and chemical stabilities polymorphism crystal structures and phase transformation and the association with current applications The book goes on to present the band structure of the oxides using several quantum chemical calculations which belong to a newly developed area in the binary rare earth oxides Central to this chapter are the characterizations of electrical magnetic and optical properties as well as details of single crystal growth and particle preparation methods that have progressed in recent years Later chapters concentrate on thermo chemical properties and trace determination techniques The final chapter contains a variety of useful applications in various fields such as phosphors glass abrasives automotive catalysts fuel cells solid electrolytes sunscreens iron steels and biological materials This book is an invaluable resource for materials scientists and solid state physicists and chemists with an interest in rare earth oxides as well as advanced students and graduates who require an approach to familiarize them with this field This book provides guidance through a comprehensive review of all the characteristics of binary rare earth oxides **Binary Rare Earth Oxides** G. Adachi, Nobuhito Imanaka, Z.C.

Kang, 2004-09 Binary Rare Earth Oxides is the first book in the field of rare earth oxides that provides coverage from the basic science through to recent advances This book introduces the unique characteristics of the binary rare earth oxides with their chemistry physics and applications It provides a comprehensive review of all the characteristics of rare earth oxides essential for scientists and engineers involved with rare earths oxides inorganic materials ceramics and structures The binary rare earth oxides bring us a variety of interesting characteristics Understanding their fundamental mechanisms builds a bridge between solid state chemistry and materials science The book begins with a brief introduction to binary rare earth oxides their physical and chemical stabilities polymorphism crystal structures and phase transformation and the association with current applications The book goes on to present the band structure of the oxides using several quantum chemical calculations which belong to a newly developed area in the binary rare earth oxides Central to this chapter are the characterizations of electrical magnetic and optical properties as well as details of single crystal growth and particle preparation methods that have progressed in recent years Later chapters concentrate on thermo chemical properties and trace determination techniques The final chapter contains a variety of useful applications in various fields such as phosphors

glass abrasives automotive catalysts fuel cells solid electrolytes sunscreens iron steels and biological materials This book is an invaluable resource for materials scientists and solid state physicists and chemists with an interest in rare earth oxides as well as advanced students and graduates who require an approach to familiarize them with this field This book provides guidance through a comprehensive review of all the characteristics of binary rare earth oxides **Science and Technology of Rare Earth Materials** E C Subbarao,2012-12-02 Science and Technology of Rare Earth Materials reviews the important aspects of the science and technology of rare earth materials covering the entire spectrum from occurrence to extraction and purification phase relationships electronic structure and applications This book is organized into five sections encompassing 19 chapters The occurrence extraction and production of rare earths are discussed in the first section followed by purification methods employed for rare earths together with the role of impurities on their behavior The phase relations among the rare earth alloys including a particular reference to the technologically important rare earth cobalt alloys and phase relations among the rare earth oxides are considered in the second section The succeeding two sections focus on studies of the electronic structure of rare earth materials with emphasis on the use of nuclear magnetic resonance and Mossbauer spectroscopy Theoretical conceptions are set forth as well as the effect of crystal fields and valence fluctuations on the properties of rare earth systems The final section describes some of the extensive current uses of rare earth materials such as in the steel industry and in permanent magnets as well as emerging applications in catalysis hydrogen storage ferroelectrics and fast ion conductors This book is a valuable resource for researchers and students interested in rare earths

Handbook on the Physics and Chemistry of Rare Earths ,2016-10-31 Handbook on the Physics and Chemistry of Rare Earths Including Actinides is a continuous series of books covering all aspects of rare earth science including chemistry life sciences materials science and physics The book s main emphasis is on rare earth elements Sc Y and the lanthanides La through Lu but whenever relevant information is also included on the closely related actinide elements 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 with two published volumes each year Presents up to date overviews and new developments in the field of rare earths covering both their physics and chemistry Contains Individual chapters that are comprehensive and broad with critical reviews Provides contributions from highly experienced invited experts *Metal Oxide-based High-K Dielectrics* Srikanta Moharana,Santosh Kumar Satpathy,Tuan Anh Nguyen,Ram K. Gupta,Parvej Ahmad Alvi,2025-05-26 This book provides chronological advancement of metal oxide high K dielectrics up to contemporary scenarios synthesis with suitability and challenges and diverse properties with emerging technological applications It helps readers select metal oxide based high K dielectrics with large band gap cost effective and highly efficient material properties for plausible applications It provides up to date research findings on established synthesis techniques easy processing characterization properties and prospective

practical applicability including hybrid materials Features Exhaustively covers synthesis physical properties and the applications of the high K dielectrics Focuses on synthetic routes of preparation properties and their various practical applications from bench to field Discusses functionalization of novel metal oxides and flexible polymeric composite materials for superior dielectric and electrical performance Explores facile synthesis techniques for high K dielectrics and their hybrid composites properties and technological applications Includes future perspectives and possible challenges for applying high K dielectric materials This book is aimed at researchers and graduate students in materials science and engineering physics and electrical engineering **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 **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 **Handbook on the Physics and Chemistry of Rare Earths** Karl A. Gschneidner,Jean-Claude G.

Bunzli, Vitalij K. Pecharsky, 2005-03-09 This volume of the Handbook adds five new chapters to the science of rare earths. Two of the chapters deal with intermetallic compounds. An overview of ternary systems containing rare earths, transition metals, and indium. Chapter 218 opens the volume. It is followed by Chapter 219 sorting out relationships between superconductivity and magnetism. The next two chapters are dedicated to complex compounds of rare earths. Chapter 220 describes structural studies using circularly polarized luminescence spectroscopy of lanthanide systems, while Chapter 221 examines rare earth metal-organic frameworks, also known as coordination polymers. The final Chapter 222 deals with the catalytic activity of rare earths in site-selective hydrolysis of DNA and RNA. Ya. Kalychak, V. Zaremba, R. P. Ttgen, M. Lukachuk, and R. D. Hoffmann review the synthesis conditions, isothermal sections of phase diagrams, crystallography, and basic physical properties of ternary intermetallic compounds consisting of the rare earth, transition metals, and indium. P. Thalmeier and G. Zwicknagl revisit the last decade of research, uncovering some of the mysteries of the superconducting state, especially those related to heavy fermion superconductivity and the co-existence of the superconducting and exotic magnetically ordered states. J. P. Riehl and G. Muller review how the molecular stereochemistry of lanthanide complexes, both in pure forms and in mixtures, can be probed using circularly polarized luminescence. O. Guillou and C. Daiguebonne assess rare earth-containing metal-organic frameworks, also known as coordination polymers, which hold a potential as working bodies for opto-electronic and magnetic devices, microporous materials for a variety of uses such as size- and shape-selective separations, catalyst support, and hydrogen storage materials. Concluding the volume, M. Komiyama argues that future biotechnology may well rely on the use of rare earth ions as unique catalysts that can slice DNA and RNA in order to allow their reprogramming and thus lead to more effective bioengineered processes. *Advanced Inorganic Fluorides: Synthesis, Characterization and Applications*. T. Nakajima, B. Žemva, A. Tressaud, 2000-05-12 This book summarizes recent progresses in inorganic fluorine chemistry. Highlights include new aspects of inorganic fluorine chemistry such as new synthetic methods, structures of new fluorides and oxide fluorides, their physical and chemical properties, fluoride catalysts, surface modifications of inorganic materials by fluorination process, new energy conversion materials, and industrial applications. Fluorine has quite unique properties: highest electronegativity, very small polarizability. In fact, fluorine is so reactive that it forms fluorides with all elements except with the lightest noble gases, helium, neon, and argon. Originally, due to its high reactivity, fluoride chemistry faced many technical difficulties and remained undeveloped for many years. Now, however, a large number of fluorine-containing materials are currently produced for practical uses on an industrial scale, and their applications are rapidly extending to many fields. Syntheses and structure analyses of thermodynamically unstable, high oxidation state fluorides have greatly contributed to inorganic chemistry in this decade. Fluoride catalysts and surface modifications using fluorine are developing a new field of fluorine chemistry and will enable new syntheses of various compounds. The research on inorganic fluorides is now contributing to many chemical energy conversion processes such as lithium batteries. Furthermore, new theoretical

approaches to determining the electronic structures of fluorine compounds are also progressing On the industrial front the use of inorganic fluorine compounds is constantly increasing for example in semi conductor industry Advanced Inorganic Fluorides Synthesis Characterization and Applications focuses on these new features in inorganic fluorine chemistry and its industrial applications The authors are outstanding experts in their fields and the contents of the book should prove to be of valuable assistance to all chemists graduates students and researchers in the field of fluorine chemistry

Progress in the Science and Technology of the Rare Earths Leroy Eyring, 2013-09-17 Progress in the Science and Technology of the Rare Earths Volume 1 is a 16 chapter text that brings together significant advances in understanding the scientific and technological aspects of rare earths The first chapters deal with the geochemical properties mass extraction separation fractionation and solution chemistry of rare earths RE The next chapter related the U S S R efforts in delineating the chemistry of RE and in the discovery of other groups of substances for separation of RE mixtures These topics are followed by discussions on phase equilibrium properties of RE and other oxides in mixed systems the crystal chemistry of RE derivatives physical and structural properties of alloys and intermetallic compounds and the thermodynamic and magnetic properties of RE chalcogenides The final chapter discusses the technical industrial and commercial applications of RE with emphasis on their metallurgical potential This book is of value to inorganic and organic chemists and researchers in the allied fields

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