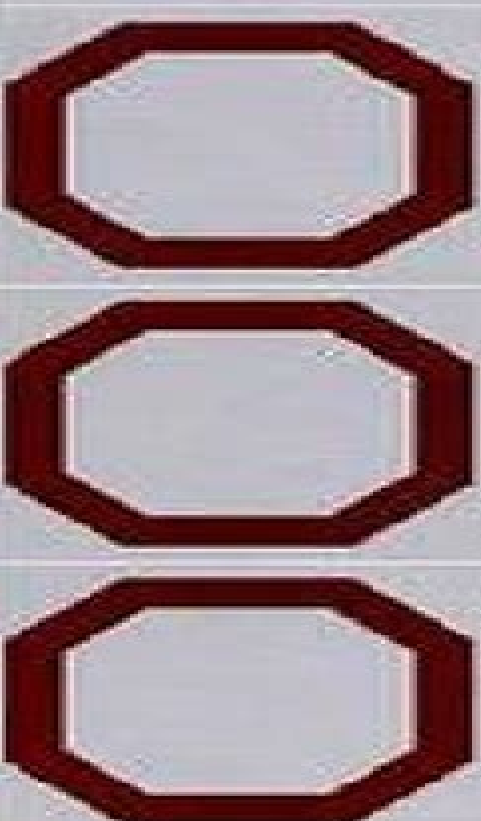




K.A. Gschneidner, Jr. and L. Eyring
Editors

HANDBOOK ON THE
PHYSICS AND CHEMISTRY OF
RARE EARTHS

Volume 28

North-Holland



Handbooks On The Physics And Chemistry Of Rare Earths

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Handbooks On The Physics And Chemistry Of Rare Earths:

Handbook on the Physics and Chemistry of Rare Earths Karl A. Gschneidner (Jr.), L. Eyring, 2000-07-11 Even at the beginning of the new millennium the rare earths still remain to a certain extent a mystery. The chapters in this volume will help to unravel some of these. In the filling of the 4f electronic orbitals the lanthanides defy the elementary aufbau principle that underlies the periodic sequence of the elements and the authors of the first chapter introduce the readers to the basic physics of the orbital collapse leading to that failure. Furthermore an explanation is offered in terms of double well potentials. The phenomenon is illustrated using the valence transitions observed in some of the rare earth atoms including Sm group metals and the higher oxides of cerium, praseodymium and terbium. In the second chapter the synthesis and structure of the many types of rare earth halides are described. They have been described as simple, complex, binary, ternary and multinuclear, complex and other categories needed to deal with the most studied of the rare earth compounds. The structure types are skillfully illustrated to show the elementary architecture of each type. In chapter three the authors discuss the science and applications of rare earth super ionic conductors as solid electrolytes. Conduction by oxygen and fluorine anions as well as hydrogen and other cations associated with these electrolytes is emphasized. They deal with extrinsic and intrinsic types together with their associated structures and structural types including structural defects. The chapter concludes with an outline of the many applications of solid electrolytes. Chapter four introduces the reader to the principles that underlie thermoluminescence and its application to dosimetry and provides detailed information on the R-activated phosphors that support dosimetry. This is a selective review of detailed literature based on the areas making most progress. The final chapter elaborates on the data gained by the studies and interpretation around the analytical separation of the individual rare earth elements utilizing chromatographic techniques. The authors describe the fundamental chemistry that underpins contemporary analytical separation techniques for lanthanide separation and analysis. This is done after a description of the rich assortment of separation methods in use has been introduced.

Handbook on the Physics and Chemistry of Rare Earths Karl A. Gschneidner, LeRoy Eyring, 1978 This volume of the handbook covers a variety of topics with three chapters dealing with a range of lanthanide magnetic materials and three individual chapters concerning equiatomic ternary ytterbium intermetallic compounds, rare earth polysulfides and lanthanide organic complexes. Two of the chapters also include information on the actinides and the comparative lanthanide-actinide behaviors.

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information involving references to other review articles written from different points of view the books are an important reference source and should be on the shelves of most libraries

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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

Handbook on the Physics and Chemistry of Rare Earths ,1978 *Handbook on the Physics and Chemistry of Rare Earths* Jean-Claude G. Bunzli,2022-07-14 Handbook on the Physics and Chemistry of Rare Earths Including Actinides Volume 61 presents the latest release in this continuous series that covers all aspects of rare earth science including chemistry life sciences materials science and physics Handbook On The Physics And Chemistry Of Rare Earths Gschneidner K.A., *Handbook on the Physics and Chemistry of Rare Earths* ,2016-11-17 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

Handbook on the Physics and Chemistry of Rare Earths Jean-Claude G. Bunzli,2019 **Handbook on the Physics and Chemistry of Rare Earths** Jean-Claude G. Bunzli,Vitalij K. Pecharsky,2021-10-30 Handbook on the Physics and Chemistry of Rare Earths Including Actinides Volume 60 presents the latest release in this continuous series that covers all aspects of rare earth science including chemistry life sciences materials science and physics 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 along with critical reviews Provides contributions from highly experienced invited experts *Handbook on the Physics and Chemistry of Rare Earths* K.A. Gschneidner,L. Eyring,M.B. Maple,2000-12-15 This volume of the Handbook is the first of a two volume set of reviews devoted to the rare earth based high temperature oxide superconductors commonly known as hiTC superconductors The history of hiTC superconductors is a few months short of being 14 years old when Bednorz and M ller published their

results which showed that $\text{LaBa}_2\text{CuO}_4$ had a superconducting transition of 30 K which was about 7K higher than any other known superconducting material. Within a year the upper temperature limit was raised to nearly 100K with the discovery of an 90K superconducting transition in $\text{YBa}_2\text{Cu}_3\text{O}_7$. The announcement of a superconductor with a transition temperature higher than the boiling point of liquid nitrogen set off a frenzy of research on trying to find other oxide hTc superconductors. Within a few months the maximum superconducting transition reached 110 K $\text{Bi}_2\text{Sr}_2\text{Ca}_2\text{Cu}_3\text{O}_{10}$ and then 122K

$\text{TlBa}_2\text{Ca}_3\text{Cu}_4\text{O}_{11}$. It took several years to push Tc up another 11 K to 133 K with the discovery of superconductivity in $\text{HgBa}_2\text{Ca}_2\text{Cu}_3\text{O}_8$ which is still the record holder today. **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* Karl A. Gschneidner (jr.), LeRoy

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This volume of the Handbook is the second of a three volume set of reviews devoted to the interrelationships similarities differences and contrasts of the lanthanide and actinide series of elements. In particular this book considers the comparisons of the chemistry of the lanthanide and actinide elements. The lanthanide and actinide elements present a multitude of challenging physical and chemical problems resulting from the involvement of open f shell electronic configurations. This is made clear in the chapters composing these volumes which cover topics such as the experimental and theoretical aspects of solution absorption and luminescence spectra to reveal similarities and differences in the two f series the methods and effectiveness of separation by solvent extraction ion exchange and necessary accompanying reactions the comparative thermochemical and oxidation reduction properties of lanthanide and actinide materials interrelationships and comparisons of the halides an examination of the relative hydration and hydrolysis behaviors of the lanthanides and actinides.

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