



Editorial

Synthesis, Properties and Applications of Lanthanide and Actinide Molecular Compounds

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Lanthanides and actinides have unique physical and chemical properties, and their compounds continue to be extensively studied on a fundamental level during the search for applications that range from energy production and related environmental issues to the life sciences [1–6]. This Special Issue aimed to collect contributions focused on recent results on the synthesis, reactivity, properties and applications of lanthanide and actinide molecular compounds. It followed a previous *Inorganics* Special Issue devoted to “Rare Earth and Actinide Complexes” that featured Stephen Mansell and Stephen Liddle as Guest Editors [7]. The five- to eight-year period between them witnessed significant advancements that relied on the exceptional optical and magnetic properties of the lanthanides [8–11] and on exploring and enlightening the properties of less-studied actinides, particularly heavier ones [12,13]. Therefore, this Special Issue, provides a small but significant sample of the current research in f-element coordination chemistry, comprising seven contributions involving the lanthanides and two focusing on omnipresent uranyl.

Evans and co-workers [14], as well as Reinhardt and Roesky [15], reported interesting examples of the widely studied but still fascinating organometallic chemistry of samarium, involving vintage, but ever-present, cyclopentadienyl ligands. Vostrikova and co-workers, in two contributions [16,17], examined the structure and magnetic properties of new lanthanide complexes comprising tripodal ligands. Vostrikova [18] also contributed a review on this topic of lanthanide complexes with tripodal ligands, particularly air-stable ones, and their usage in magnetism studies. Lanthanide complexes can be the building blocks of more extended structures that can tune luminescence and/or magnetic properties. Ivanova et al. [19] evaluated the photoluminescence of lanthanide(III) coordination polymers with a triazolyl methane linker, while Liu et al. [20] examined the properties of oligomeric Gd compounds as possible magnetic refrigerants. For the actinides, Tsantis et al. [21] provided a study of selected amidoxime ligands as models for understanding the selective extraction of uranyl ions from seawater, employing structural and spectroscopic analyses. Maria and Marçalo [22] contributed a review on a long-running topic in actinide chemistry concerning the challenges associated with the formation of uranyl analog complexes.

We hope that this Special Issue has contributed to highlighting the scope and distinctiveness of f-element chemistry. Owing to the unique properties of lanthanide ions, the potential utility of molecular lanthanide compounds in biosensing and bioimaging continues to increase. The search for new bonding motifs in molecular actinide compounds is ongoing and key to the development of separation strategies for spent nuclear fuel and the processing of radioactive waste.

Conflicts of Interest: The authors declare no conflicts of interest.



Citation: Maria, L.; Marçalo, J. Synthesis, Properties and Applications of Lanthanide and Actinide Molecular Compounds. *Inorganics* **2024**, *12*, 328. <https://doi.org/10.3390/inorganics12120328>

Received: 2 December 2024
Accepted: 12 December 2024
Published: 16 December 2024



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Synthesis Of Lanthanide And Actinide Compounds

J. A. McCleverty, T.J. Meyer



Synthesis Of Lanthanide And Actinide Compounds:

Synthesis of Lanthanide and Actinide Compounds G. Meyer, L.R. Morss, 2012-12-06 **Lanthanide and Actinide Chemistry** Simon Cotton, 2024-01-12

LANTHANIDE AND ACTINIDE CHEMISTRY Lanthanides and actinides also known as f elements are a group of metals which share certain important properties and aspects of electronic structure They have a huge range of applications in the production of electronic devices magnets superconductors fuel cells sensors and more The cursory treatment of these important metals in most inorganic chemistry textbooks makes a book length treatment essential Since 2006 Lanthanide and Actinide Chemistry has met this need with a thorough accessible overview With in depth accounts of the lanthanides actinides and transactinides this book is ideal for both undergraduate and postgraduate students in inorganic chemistry or chemical engineering courses Now updated to reflect groundbreaking recent research this promises to continue as the essential introductory volume on the subject Readers of the second edition of Lanthanide and Actinide Chemistry will also find New and expanded subject areas including lanthanide enzymes single molecule magnets luminescence and upconversion organometallic and coordination chemistry and many more Up to date information on the myriad modern applications of f elements Lists of objectives and learning goals at the start of each chapter Lanthanide and Actinide Chemistry is ideal for advanced undergraduates and graduate students in f element chemistry inorganic chemistry or any related field

INORGANIC CHEMISTRY ADVANCED TEXTBOOK This series reflects the pivotal role of modern inorganic and physical chemistry in a whole range of emerging areas such as materials chemistry green chemistry and bioinorganic chemistry as well as providing a solid grounding in established areas such as solid state chemistry coordination chemistry main group chemistry and physical inorganic chemistry

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 millenium 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 Lanthanides And Actinides, The: Synthesis, Reactivity, Properties And Applications Stephen T Liddle, David P Mills, Louise Sarah Natrajan, 2021-12-30 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 **Synthetic Methods of Organometallic and Inorganic Chemistry:**

Lanthanides and actinides Wolfgang A. Herrmann, 1996 A series containing experimental procedures as a benchtop tool for preparative organometallic inorganic and organoelement chemists *Handbook on the Physics and Chemistry of Rare Earths*, 2023-11-23 Handbook on the Physics and Chemistry of Rare Earths Including Actinides Volume 64 the latest release in this continuous series that covers all aspects of rare earth science including chemistry life sciences materials science and physics presents interesting chapters on a variety of topics with this release including sections on Structure and properties of Ln₂M₃Ge₅ compounds Giant magnetocaloric effect materials Lanthanide based single molecule magnets and Magnetic Refrigeration with Lanthanide Based Materials 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 *Comprehensive Coordination Chemistry II* J. A. McCleverty, T.J. Meyer, 2003-12-03 Comprehensive Coordination Chemistry II CCC II is the sequel to what has become a classic in the field Comprehensive Coordination Chemistry published in 1987 CCC II builds on the first and surveys new developments authoritatively in over 200 newly commissioned chapters with an emphasis on current trends in biology materials science and other areas of contemporary scientific interest *Lanthanide and Actinide Chemistry* Simon Cotton, 2013-03-15 The only introduction into the exciting chemistry of Lanthanides and Actinides The book is based on a

number of courses on f elements The author has a long experience in teaching this field of chemistry Lanthanides have become very common elements in research and technology applications this book offers the basic knowledge The book offers insights into a vast range of applications from lasers to synthesis The Inorganic Chemistry A Textbook series reflects the pivotal role of modern inorganic and physical chemistry in a whole range of emerging areas such as materials chemistry green chemistry and bioinorganic chemistry as well as providing a solid grounding in established areas such as solid state chemistry coordination chemistry main group chemistry and physical inorganic chemistry Lanthanide and Actinide Chemistry is a one volume account of the Lanthanides including scandium and yttrium the Actinides and the Transactinide elements intended as an introductory treatment for undergraduate and postgraduate students The principal features of these elements are set out in detail enabling clear comparison and contrast with the Transition Elements and Main Group metals The book covers the extraction of the elements from their ores and their purification as well as the synthesis of the man made elements the properties of the elements and principal binary compounds detailed accounts of their coordination chemistry and organometallic chemistry from both preparative and structural viewpoints with a clear explanation of the factors responsible for the adoption of particular coordination numbers spectroscopy and magnetism especially for the lanthanides with case studies and accounts of applications in areas like magnetic resonance imaging lasers and luminescence nuclear separations and problems in waste disposal for the radioactive elements particularly in the context of plutonium Latest developments are covered in areas like the synthesis of the latest man made elements whilst there is a whole chapter on the application of lanthanide compounds in synthetic organic chemistry End of chapter questions suitable for tutorial discussions are provided whilst there is a very comprehensive bibliography providing ready access to further reading on all topics The Chemistry of the Actinide and Transactinide Elements (3rd ed., Volumes 1-5) L.R. Morss, Norman M. Edelstein, Jean Fuger, 2007-12-31 The Chemistry of the Actinide and Transactinide Elements is a contemporary and definitive compilation of chemical properties of all of the actinide elements especially of the technologically important elements uranium and plutonium as well as the transactinide elements In addition to the comprehensive treatment of the chemical properties of each element ion and compound from atomic number 89 actinium through to 109 meitnerium this multi volume work has specialized and definitive chapters on electronic theory optical and laser fluorescence spectroscopy X ray absorption spectroscopy organoactinide chemistry thermodynamics magnetic properties the metals coordination chemistry separations and trace analysis Several chapters deal with environmental science safe handling and biological interactions of the actinide elements The Editors invited teams of authors who are active practitioners and recognized experts in their specialty to write each chapter and have endeavoured to provide a balanced and insightful treatment of these fascinating elements at the frontier of the periodic table Because the field has expanded with new spectroscopic techniques and environmental focus the work encompasses five volumes each of which groups chapters on related topics All chapters represent the current state of research in the chemistry

of these elements and related fields *Lanthanides-Actinides* K. A. Gschneidner, Jr., Karl A. Gschneidner, Leroy Eyring, G. H. Lander, Gregory R. Choppin, 1993 Hardbound This volume of the Handbook is the first of a three volume set of reviews devoted to the interrelationships similarities differences and contrasts of the lanthanide and actinide series of elements In order to comprehensively cover this large field two leading scientists G H Lander and G R Choppin were invited to be guest editors for this special set of volumes Together the four editors carefully and critically chose the various topics and invited the appropriate experts to write reviews keeping in mind that the emphasis was to be on the interrelationships of the lanthanides and actinides The volume contains eight chapters concerned with some of the physical aspects of the lanthanide and actinide series The first three chapters are theoretical in nature and the last five are more heavily oriented towards experimental studies

Synthesis Of Lanthanide And Actinide Compounds Book Review: Unveiling the Power of Words

In a global driven by information and connectivity, the power of words has be much more evident than ever. They have the ability to inspire, provoke, and ignite change. Such could be the essence of the book **Synthesis Of Lanthanide And Actinide Compounds**, a literary masterpiece that delves deep to the significance of words and their affect our lives. Published by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book is key themes, examine its writing style, and analyze its overall effect on readers.

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