



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.



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Synthesis Of Lanthanide And Actinide Compounds

J Elliott



Synthesis Of Lanthanide And Actinide Compounds:

Synthesis of Lanthanide and Actinide Compounds G. Meyer, Lester R. Morss, 1990-12-31 The history of the rare earths has entered its third century trans uranium elements are now a half century old Both the lanthanide and actinide elements 30 elements altogether are f elements meaning that their metallic 2 1 1 electronic configurations are typically 6s 5d 4f and 7s 6d 5f respectively To an elementary approximation as summarized in the average inorganic chemistry textbook these configurations cause their chemistry to be described by the trivalent state accompanied by less interesting effects such as the lanthanide contraction However the discovery of divalent and tetravalent lanthanides and di to seven valent actinides hinted at the existence of more interesting although still classic solid state and coordination chemistry Metallic halides and chalcogenides and electron poor cluster compounds have been the outgrowth of many synthetic efforts during the past 25 years or so These days one can say that the lanthanides and actinides are not at all boring the fascination arises from every element being an individual having its own chemistry

Synthesis of Lanthanide and Actinide Compounds G. Meyer, L.R. Morss, 2012-12-06 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

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

Handbook on the Physics and Chemistry of Rare Earths Karl A. Gschneidner (Jr.), LeRoy Eyring, 1978 **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 *Nuclear Science Abstracts*, 1974-07 Lanthanide and Actinide Chemistry Simon Cotton, Simon A. Cotton, 2006-02-17 This series reflects the pivotal role of modern inorganic and physical chemistry in a range of emerging areas and in this text the main features of the Lanthanides Actinides and the Transactinide elements are described enabling clear comparison and contrast with the Transition elements and Main Group metals

Lanthanide and Actinide Chemistry and Spectroscopy Norman M. Edelstein, American Chemical Society. Division of Inorganic Chemistry, 1980 **Inorganic Chemistry, Series One: Lanthanides and actinides, edited by K.W. Bagnall** Harry Julius Emeléus, 1972 *The Rare Earths in Modern Science and Technology* Gregory J. McCarthy, J. J. Rhyne, Herbert B. Silber, 1978-06 The 13th Rare Earth Research Conference was held October 16 19 1977 in Wilson Lodge at Oglebay Park near Wheeling West Virginia From the small conference held originally at Lake Arrowhead California in 1960 the meetings have grown steadily in size and stature until they are now recognized as the premier conference devoted exclusively to the science and technology of rare earth systems In keeping with the spirit which has prevailed since the Lake Arrowhead days a number of improvements were instituted on the occasion of the 13th Conference For the first time poster sessions were introduced and they proved to be a splendid success This was a year of another first a review system for manuscripts Dr

McCarthy who undertook the arduous task of Program Chairman and Dr Rhyne who along with Dr McCarthy edited the conference proceedings were mainly responsible for suggesting and implementing these innovations. The layout at Wilson Lodge was nearly ideal for the conference in that poster and oral sessions were in very close proximity facilitating the efforts of the attendees to make the most of the conference.

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Inorganic Chemistry in Focus II Gerd Meyer, Dieter Naumann, Lars Wesemann, 2005-04-15 Written specifically for scientists seeking an insight into this field outside of their own specific area of focus this series offers a truly comprehensive overview of every area in inorganic chemistry. In this second volume the editors have assembled an international team of experts who provide an unparalleled look at their latest research results in reaction mechanisms aluminum I chemistry solid state chemistry transition metals structural chemistry and many related topics. For everyone wanting to stay abreast of developments in this increasingly specialized field. From reviews to the first Volume I Inorganic Chemistry Highlights. This volume valuable for teachers researchers and advanced students provides us with numerous brief overviews of modern hot highlights in the field of inorganic chemistry. The editors appear to have been quite successful in their endeavor. Many of the authors are recognized experts in their areas. The presentation is excellent. This volume should have an excellent impact particularly among those who wish to expand their breadth and understanding of modern inorganic chemistry. We look forward to the appearance of Volume 2.

Comprehensive Coordination Chemistry II J. A. McCleverty, T.J. Meyer, 2003-12-17 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.

Physics Briefs, 1992 Inorganic Seminar Abstracts University of Illinois at Urbana-Champaign. Department of Chemistry, 1979

Government Reports Announcements & Index, 1978-06-23

Proceedings of the 20th Rare Earth Research Conference Lester R Morss, 1994

Index to Scientific & Technical Proceedings, 1978-07 Monthly with annual cumulation. Published conference literature useful both as current awareness and retrospective tools that allow searching by authors of individual papers as well as by editors. Includes proceedings in all formats i.e. books reports journal issues etc. Complete bibliographical information for each conference proceedings appears in section titled Contents of proceedings with accompanying category permuterm subject sponsor author editor meeting location and corporate indexes. Contains abbreviations used in organizational and geographical names.

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