



Rare Earth Coordination Chemistry: Fundamentals and Applications

By Chun-Hui Huang

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Edited by a highly regarded scientist and with contributions from sixteen international research groups, spanning Asia and North America, Rare Earth Coordination Chemistry: Fundamentals and Applications provides the first one-stop reference resource for important accomplishments in the area of rare earth. Consisting of two parts, Fundamentals and Applications, readers are armed with the systematic basic aspects of rare earth coordination chemistry and presented with the latest developments in the applications of rare earths. The systematic introduction of basic knowledge, application technology and the latest developments in the field, makes this ideal for readers across both introductory and specialist levels.

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Editorial Review

Review

"Overall, this is a book with some excellent and topical content, particularly in the chapters on applications, which a reader who has some basic knowledge of rare earth chemistry will enjoy and find useful."
(Chemistry World, 1 January 2011)

From the Back Cover

Although several books have been published in this field, there is not an advanced book focusing on coordination chemistry with systematic introduction of basic knowledge, application technology and the latest developments. With this book, readers will gain proficiencies in systematic basic aspects and the latest development of applications of rare earth coordination chemistry. Topics include the configuration of rare earth elements at ground states; β -diketonate lanthanide complexes; rare earth complexes with carboxylic acids, polyaminopolycarboxylic acids and amino acids; the coordination chemistry of rare earth alkoxides, aryloxides and hydroxides; organometallic lanthanide chemistry; rare earth coordination chemistry with fullerene as ligands; N-based rare earth complexes; rare earth polyoxometalate complexes; lanthanide-based magnetic molecular materials; gadolinium complexes as MRI contrast agents for diagnosis; photoluminescence and electroluminescence based on lanthanide complexes in visible range; Near-infrared (NIR) luminescence from lanthanide complexes; chemical and biological applications of luminescent rare earth complexes.

- First book covering exclusively on rare earth coordination chemistry
- Presents systematic introduction into rare earth coordination
- Edited and organized by a highly regarded scientist in the field
- With contributions from 16 international research groups, spanning Asia and N. America
- A one-stop reference resource for important accomplishments in the area of rare earth
- Accessible to readers of many levels, from introductory to specialist

As one of the first books to present such a comprehensive treatment of the topic, *Rare Earth Coordination Chemistry: Fundamentals and Applications* is ideal for postgraduates and researchers in inorganic chemistry, particularly those focusing on rare earth chemistry or lanthanide chemistry. Developed for classroom use, the book has the potential to become a main text for an advanced course on F-block. The book will also better equip postgraduates, researchers and engineers in relevant academia and industry who need an introduction into rare earth coordination chemistry.

About the Author

Chun-Hui Huang is a member of Chinese Academy of Sciences and a Professor Emeritus of Inorganic Chemistry at Peking University. From 1981 - 1983, Huang worked at Ames Laboratory and University of Arizona in the U.S. as a visiting scholar.

Users Review

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