



Rare Earth Nanotechnology

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This book provides in-depth aspects of nanotechnology of rare earth (RE) materials. It starts with a review on the physical and chemical properties of RE elements, followed by a discussion on various strategies in fabricating nanosized RE materials. It describes various techniques in derivatizing surface molecules onto nanosized RE materials. A considerable portion of the book is devoted to the review and discussion of the application of nanosized RE materials as contrast agents in *in vitro* and *in vivo* fluorescence imaging, MRI, and integrated modalities imaging. The book also discusses the application of RE nanomaterials in LEDs.

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Rare Earth Nanotechnology From Pan Stanford Bibliography

- Sales Rank: #4391142 in eBooks
- Published on: 2012-06-20
- Released on: 2012-06-20
- Format: Kindle eBook

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Editorial Review

Review

"Rare earth elements are ubiquitous in modern technologies, from catalysis to lighting and in imaging in biology and medicine. New applications for these elements are being found at an increasing rate. At the same time, concerns have been raised about their limited supply. There could not be a better time for a comprehensive review of the application of rare earth elements in nanotechnologies. This book provides a thorough and valuable survey of the application of these essential elements in the fast-developing field of nanotechnology. The book will be useful to new entrants to the area, as well as established researchers."

?Prof. Ian Kennedy - University of California, Davis, USA

"This book features a collection of excellent and professionally written reviews on the synthesis, control of functionalities and applications of lanthanide nanomaterials to bio-imaging and light-emitting diodes. It appears at a time when these areas of research and technology are sustaining an extraordinary interest in view of the breathtaking spectroscopic and magnetic properties of lanthanide nanomaterials. Any professional active in this type of research and any student interested in getting started into these fields and in contributing to them should get highly inspired by this work."

?Prof. Jean-Claude Bunzli - Institute of Chemical Sciences and Engineering, Switzerland

"The unique properties of materials containing rare earth elements have become essential in several electronic, optical, magnetic, bio-medical, and catalytic applications. The fine-tuning of materials at a nanoscale level is one of the critical aspects for the success of these technologies. This book represents an excellent compendium on the preparation and controlled modification of rare earth nanomaterials, covering their applications in various spectroscopic techniques and their unique luminescent properties. It is also recommended as an excellent reference book for academics and students."

?Prof. Alessandro Trovarelli - University of Udine, Italy

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