

The Chemistry Of Nanostructured Materials

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The Chemistry of Nanostructured Materials

The “ wet ” colloid chemical construction of nanosized or nanostructured materials (i.e., those in the 1 – 100 nm range) has been inspired by biomineralization (the in vivo formation of inorganic crystals and/or amorphous particles in biological systems) and hierarchically organized self-assembly (spontaneous stepwise

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assembly of functional units). Subsequent to a summary of the molecular level organization of surfactant monolayers, Langmuir – Blodgett and self-assembled films emphasis is ...

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Nanostructured materials: basic concepts and ...

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the chemistry of nanostructured materials

Herein, we present the research progress of magnetron sputtering enabled nanostructured materials as electrode materials for electrochemical energy storage. Firstly, magnetron sputtered anode materials (Si-based materials, metal-based materials, metal oxides, etc.) and cathode materials (i.e. , transition metal oxides and phosphates) for lithium/sodium ion batteries are systematically reviewed.

Magnetron sputtering enabled synthesis of nanostructured ...

This book discusses the early stages of the development of nanostructures, including synthesis techniques, growth mechanisms, the physics and chemistry of nanostructured materials, various innovative characterization techniques, the need for functionalization and different functionalization methods as well as the various properties of nanostructured materials.

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Hollow nanostructured metal oxides (HNMOs) have got great attention as advanced materials due to their fascinating physicochemical properties and significantly enhanced performance. However, because of the poor electron conductivity of most metal oxides, it is highly desirable to integrate metal oxides with conductive carbon materials for further achieving boosted behavior.

Versatile template-free construction of hollow ...

of the chemistry of nanostructured materials it covers the most exciting developments in the nanostructured materials field for the past five to ten years with a particular focus on their applications in energy conversion and energy storage the wet colloid chemical preparation of nanostructured materials in our laboratories is illustrated by the

The Chemistry Of Nanostructured Materials

This important book reviews extensively the preparative chemistry of various nanostructured materials, as well as structural-property correlations for these new materials. Materials of current interest, such as nanocrystals, nanowires, nanotubes, porous materials, biomaterials and composites, are comprehensively covered.

The chemistry of nanostructured materials (eBook, 2003 ...

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This book is a sequel to the first volume of The Chemistry of Nanostructured Materials. It covers the most exciting developments in the nanostructured materials field for the past five to ten years, with a particular focus on their applications in energy conversion and energy storage. Prominent authors of recognized authority in the field contribute their expertise in the review chapters.

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field for the past five to ten years, with a particular focus on their applications in energy conversion and energy storage. Prominent authors of recognized authority in the field contribute their expertise in the review chapters.

The development of nanostructured materials represents a new and fast evolving application of recent research in physics and chemistry. Novel experimental tools coupled with new theory have made this possible. Topics covered in this book include nanocrystals, semiconductor heterostructures, nanotubes, nanowires, and manipulation and fabrication techniques. The core of the book consists of ten lectures by five distinguished researchers, Paul Alivisatos, D.D. Awschalom, Sumio Iijima, Charles Lieber and Phaedon Avouris, presented at an Advanced Study Institute in Hong Kong in January 1999. It should interest materials physicists and chemists as well as materials scientists with an interest in the growth and characterisation of sophisticated materials.

Chemistry of Nanomaterials: Fundamentals and Applications provides a foundational introduction to this chemistry. Beginning with an introduction to the field of nanoscience and technology, the book goes on to outline a whole range of important effects, interactions and properties. Tools used to assess such properties are discussed, followed by chapters putting this fundamental knowledge in context by providing examples of nanomaterials and their applications in the real world. Drawing on the experience of its expert authors, this book is an accessible introduction to the interactions at play in nanomaterials for both upper-level students and researchers. Highlights the foundational chemical interactions at play in nanomaterials Provides accessible insight for readers across multidisciplinary fields Places nanomaterial chemistry in the context of the broader field of nanoscale research

With this handbook the distinguished team of editors has combined the expertise of leading nanomaterials scientists to provide the latest overview of this field. The authors cover the whole spectrum of nanomaterials, ranging from theory, synthesis, properties, characterization to application, including such new developments as: - quantum dots, nanoparticles, nanoporous materials, as well as nanowires, nanotubes and nanostructural polymers - nanocatalysis, nanolithography, nanomanipulation - methods for the synthesis of nanoparticles. The book can thus be recommended for everybody working in nanoscience: Beginners can acquaint themselves with the exciting subject, while specialists will find answers to all their questions plus helpful suggestions for further research.

This text focuses on the synthesis, properties and applications of nanostructures and nanomaterials, particularly inorganic nanomaterials. It provides coverage of the fundamentals and processing techniques with regard to synthesis, properties, characterization and applications of nanostructures and nanomaterials.

With this handbook, the distinguished team of editors has combined the expertise of leading nanomaterials scientists to provide the latest overview of this field. They cover the whole spectrum of nanomaterials, ranging from theory, synthesis, properties, characterization to application, including such new developments as quantum dots, nanoparticles, nanoporous materials, nanowires, nanotubes, and nanostructured polymers. The result is recommended reading for everybody working in nanoscience: Newcomers to the field can acquaint themselves with this exciting subject, while specialists will find answers to all their questions as well as helpful suggestions for further research.

This book provides valuable information on the new class of nanostructures—metal/carbon nanocomposites—and discusses new methods of their synthesis,

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properties, and applications. It covers computer prognosis, including quantum chemical modeling, for metal/carbon nanocomposites synthesis processing as well as fine dispersed suspensions obtaining processes and material modification processes. Intended for researchers, academics, and post-graduate students, the book will give readers an up-to-date look at this important and valuable new class of nanostructures: metal/carbon nanocomposites.

Nanotechnology Provides comprehensive coverage of the dominant technology of the 21st century Written by a truly international list of contributors.

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