

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 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 (NsM) are materials with a microstructure the characteristic length scale of which is on the order of a few (typically 1–10) nanometers. NsM may be in or far away from thermodynamic equilibrium. NsM synthesized by supramolecular chemistry are examples of NsM in thermodynamic equilibrium.

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.

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