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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: basic concepts and ...

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the chemistry of nanostructured materials

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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

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