

dynamics of disordered materials pdf

A Ni-rich LiNi_{0.8}Co_{0.1}Mn_{0.1}O₂ cathode material with radially aligned single-crystal primary particles is synthesized. This unique crystallographic texture enables three-dimensional (3D) Li⁺ diffusion channels penetrated straightforwardly from surface to center of the secondary particles and significantly alleviates volume-change-induced intergrain stress upon cycling.

Advanced Energy Materials: Early View

Davide Lionetti, Sandy Suseno, Emily Y. Tsui, Luo Lu, Troy A. Stich, Kurtis M. Carsch, Robert J. Nielsen, William A. Goddard, R. David Britt, and Theodor Agapie*

Inorganic Chemistry (ACS Publications)

In condensed matter physics, a spin glass is a disordered magnet, where the magnetic spins of the component atoms (the orientation of the north and south magnetic poles in three-dimensional space) are not aligned in a regular pattern. The term "glass" comes from an analogy between the magnetic disorder in a spin glass and the positional disorder of a conventional, chemical glass, e.g., a window ...

Spin glass - Wikipedia

Surface reconstruction refers to the process by which atoms at the surface of a crystal assume a different structure than that of the bulk. Surface reconstructions are important in that they help in the understanding of surface chemistry for various materials, especially in the case where another material is adsorbed onto the surface.

Surface reconstruction - Wikipedia

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Study of nano-porous hard carbons as anode materials for

Two organolead halide perovskite nanocrystals, CH₃NH₃PbBr₃ and CH₃NH₃PbI₃, were found to efficiently sensitize TiO₂ for visible-light conversion in photoelectrochemical cells. When self-assembled on mesoporous TiO₂ films, the nanocrystalline perovskites exhibit strong band-gap absorptions as semiconductors. The CH₃NH₃PbI₃-based photocell with spectral sensitivity of up to 800 nm yielded a ...

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