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Title: Nano-ion energy storage project

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This review paper investigates the crucial role of nanotechnology in advancing energy storage technologies, with a specific focus on ...

One of the areas investigated by our group is hierarchical design and synthesis of novel anodes with high specific capacity, high power, and long charge/discharge cycle life for next ...

The U.S. Department of Energy (DOE) has awarded \$50 million over the next five years to establish the Low-cost Earth-abundant ...

In battery research, the areas of the electrodes and cell dimensions affect the energy storage performance. Here the authors discuss the factors that influence the reliability of...

The U.S. Department of Energy (DOE) has awarded \$50 million over the next five years to establish the Low-cost Earth-abundant Na-ion Storage (LENS) consortium.

MoS₂, a typical layered transition-metal dichalcogenide material, has attracted significant attention for application in heterogeneous catalysis, lithium ion batteries and ...

Announcing 11 funding selections through its Platform Technologies for Transformative Battery Manufacturing program to create platform ...

The Low-cost Earth-abundant Na-ion Storage consortium is a major effort to create superior, no-compromise batteries that replace lithium with inexpensive, domestically ...

Nanomaterials offer greatly improved ionic transport and electronic conductivity compared with conventional battery and supercapacitor materials. They also enable the ...

This review aims to highlight the potential of nanotechnology to revolutionize energy storage systems and address the growing demand for efficient and sustainable energy ...

Joo group has laid a foundation on the utilization of gas-assisted electrospinning and air-controlled electrospray in the development of nanomaterials for energy storage devices.

Announcing 11 funding selections through its Platform Technologies for Transformative Battery Manufacturing program to create platform materials and technologies for sodium-ion batteries, ...

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