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As new technologies consume more power and alternative energy sources become increasingly necessary to fuel Iowans" lives, Iowa State University researchers are working to create ...

Energy harvesting and storage are new technologies that use established and emerging methods and materials to produce electricity by converting mechanical energy, magnetic energy, and waste heat ...

The Journal of Materials Science: Materials in Energy is a multidisciplinary, open access journal focusing on latest applications of materials to energy devices for conversion and storage of different types of ...

We are hopeful that researchers around the world will succeed in developing materials with reduced material and energy footprints for energy conversion and storage, contributing to a ...

Explore advanced materials for energy storage and conversion, including batteries, supercapacitors, and fuel cells, driving innovation in sustainable energy solutions.

Advances in materials science are key to unlocking their massive potential to change the way we interact with energy. Effective and sustainable energy storage is critical to a modern and ...

In this study, we developed a novel thick electrode system for the electrochemical relithiation of spent LFP battery powder.

The discovery, detailed in a study published yesterday in Nature, involves a new thermal energy storage (TES) material that could help harness renewable energy more effectively and ...

This review discusses the growth of energy materials and energy storage systems. It reviews the state of current electrode materials and highlights their limitations.

These examples indicate that nanostructured materials and nanoarchitectured electrodes can provide solutions for designing and realizing high-energy, high-power, and long-lasting energy ...

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