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This special issue of *Materials Today Chemistry* explores the latest advancements in energy materials, focusing on sustainable solutions for next-generation energy technologies. This issue aims to ...

Today's power grid demands storage solutions that are more efficient, built from materials that are abundant, affordable and environmentally ...

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

Exploring new material categories, from nanoparticles to metal-organic frameworks, presents exceptional opportunities to enhance energy storage efficiency, extend cycle life, and ...

Energy Storage Across Scales: Bridging Material Design and System-Level Performance This Special Issue will analyze the interplay between material properties and large-scale system requirements, ...

Here we report the first, to our knowledge, "trimodal" material that synergistically stores large amounts of thermal energy by integrating three ...

Researchers from New York University Abu Dhabi (NYUAD) have created a new material that could make the next generation of energy storage ...

Here are ten notable innovations taking place across different energy storage segments, as highlighted in GlobalData's Emerging Energy Storage ...

It delves into advanced innovations in energy storage technologies and emphasizes new materials that enhance energy efficiency and performance. We will discuss their applications in ...

While challenges such as cost-effectiveness and environmental concerns persist, the outlook for nanotechnology in energy storage remains promising, with ...

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