

Carbon materials such as graphite are important in energy storage technologies, but their mining and/or synthesis can have large environmental impacts. UP Catalyst synthesizes these ...

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Discover the latest advancements in energy storage through catalytic reactions, exploring the intersection of catalysis and reaction engineering.

Given the rise of urbanization and the various environmental challenges, along with the demand for energy resources, many researchers have developed new catalysts aimed at enhancing energy efficiency ...

New catalyst turns carbon dioxide into clean fuel source Date: February 3, 2026 Source: Yale University Summary: Researchers have found that manganese, an abundant and inexpensive metal, can be ...

With the escalating challenges of environmental pollution and energy scarcity, the exploration of novel energy storage and conversion systems has become imperative.

The review not only elucidates the development of high-performance wearable devices but also suggests potential intersections with energy storage and catalysis.

Applications span both energy conversion (HER, ORR, fuel cells, CO₂RR, and beyond) and energy storage (metal-oxygen batteries and lithium-sulfur batteries), where SACs have demonstrated remarkable ...

The articles featured in this Special Issue encompass a diverse spectrum of topics, thereby showcasing the multifaceted capabilities of nanomaterials in addressing challenges within the domains of ...

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



New Energy Storage Catalysis

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