

The global market for nickel-plated steel battery connectors is experiencing robust growth, driven by the burgeoning electric vehicle (EV) and energy storage system (ESS) sectors. The ...

Amidst global imperatives for sustainable energy and environmental remediation, carbon aerogels (CAs) present a transformative alternative to conventional carbon materials (e.g., activated ...

The sodium-ion rechargeable battery market is poised for significant growth, driven by increasing demand for sustainable and cost-effective energy storage solutions. While precise market sizing data is absent, considering the ...

Today, Ideal Semiconductor announced that it has begun full-volume production of its first 150 V MOSFETs. While the technology was released in 2023, entering full-volume production is a ...

Humanity faces significant challenges related to water pollution and energy storage, prompting scientists to develop multifunctional materials. In this context, metal oxide materials have ...

Direct air capture (DAC), as a complementary strategy to carbon capture and storage (CCS), offers a scalable and sustainable pathway to remove CO₂ directly from the ambient air. This study presents a detailed evaluation of the amine ...

The Electric Double Layer Capacitor (EDLC) electrolyte market is experiencing robust growth, driven by the increasing demand for energy storage solutions in various applications, including electric vehicles (EVs), hybrid electric vehicles ...

A battery management system plays a vital role in energy storage by protecting batteries from dangerous conditions, balancing cells, and managing charging. Operators benefit from ...

The challenge with Renewable Energy sources arises due to their varying nature with time, climate, season or geographic location. Energy Storage Systems (ESS) can be used for storing available energy from Renewable ...

Hamza N, Javed I, Sobia J, Imran SM, Naeem A (2025) High Conductivity and a large specific surface area triggered electrochemical properties of MnFe₂O₄-CNTs nanocomposites for ...

Dielectric composites play a crucial role in meeting the growing demand for high-energy-density capacitors that can operate effectively in challenging environments. These applications include aerospace power



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