
Aug 22, 2025 Through interdisciplinary perspectives, this review aims to provide a theoretical foundation for deepening the understanding of carbon/high-entropy alloy composite energy ?

Oct 1, 2024 This paper aims to critically assess the potential of biomass-derived carbon material for battery development, with a particular emphasis towards elec?

Herein,we extend the concept of dual-carbon devices to the energy storage devices using carbon materials as active materials in both anode and cathode,and offer a real-time and overall ?

Electrochemical energy storage and conversion (EESC) devices, that is, batteries, supercapacitors, and fuel cells, play a central role in addressing these challenges because ?

Jan 3, 2024 China has proposed a "dual carbon" target, and energy storage technology is one of the important supporting technologies to fulfill the "dual carbon" goal.

The \$330 Billion Question: Can We Store Our Way to Carbon Neutrality? Well, here's something you might not know ? the global energy storage market hit \$33 billion in annual revenue last ?

Sep 28, 2022 As the world works to move away from traditional energy sources, effective efficient energy storage devices have become a key factor for success. The emergence of ?

Jun 1, 2025 The increasing energy demand, the depletion of fossil fuels, and the threat of global warming are significant and urgent issues for humanity. The elec?

Oct 30, 2025 Energy storage devices effectively mitigate the intermittency and variability of wind and solar power. This increases renewable energy consumption and promotes complementary ?

Electrochemical energy storage systems (ECESS) are at the forefront of tackling global energy concerns by allowing for efficient energy usage, the integration of renewable resources, and ?

Jul 20, 2024 Keyword co-occurrence and burst analyses highlight current research hotspots and emerging frontiers. This comprehensive analysis explores the collaborative efforts and ?

Jan 3, 2024 Relevant departments constantly introduce new laws and regulations, and users' economic consciousness promotes the upgrading and transformation of China's energy ?

Jun 1, 2020 Dual-carbon based rechargeable batteries and supercapacitors are promising electrochemical energy storage devices because their characteristics of good safety, low cost ?

Jun 15, 2022 Electrochemical methods that feature low pollution and greenhouse gas emission are in high demand for developing efficient energy storage and conversion systems [4]. ?

The "dual carbon" goal?aiming for carbon peak and carbon neutrality?has become a cornerstone of China's environmental strategy. One of the most promising pathways to ?

Jul 1, 2024 There are some energy storage technologies that have emerged as particularly promising in the rapidly evolving landscape of energy storage technologies due to their ?

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