

Lili, Gong Energy Storage Materials | 2024-02-04

xianjindianyuanshiyanshi, Lili Gong et al published their article in Journal of Energy Storage battery, metal-air batteries, Zn-based ...

Among current energy storage and conversion technologies, LIBs are considered promising due to their low self-discharge rate, high energy density, lightweight, and long cycle ...

In this talk, I will discuss strategies for designing multifunctional catalysts that exhibit good catalytic performance in CO₂ activation, clean energy production, and energy storage and...

Journal of Energy Storage (IF 8.9) Pub Date : 2022-12-22, DOI: 10.1016/j.est.2022.106454 Xueyan Li, Zhiyuan Zhang, Lili Gong ...

Lithium (Li)-rich Manganese (Mn)-based cathode materials are considered to be the most hopeful cathode materials for next-generation high-energy-density Li metal batteries. ...

Advanced Energy Storage Devices: Basic Principles, Analytical Methods, and Rational Materials Design Advanced Science (IF 14.3) Pub Date : 2017-11-15, DOI: 10.1002/advs.201700322 ...

Lili's expertise is in green and sustainable catalysis, electrocatalysis, clean energy production, carbon-based materials and their applications in energy storage and catalysis. She is a Global ...

Undesirable energy density and storage ability hinder the pure carbon-based symmetric supercapacitor commercial application. Constructing hierarchical pore structure ...

Energy Storage Materials (IF 20.2) Pub Date : 2025-03-08, DOI: 10.1016/j.ensm.2025.104163 Manni Li, Jiamin Yuan, ...

Energy Storage Materials (IF 20.2) Pub Date : 2024-06-11, DOI: 10.1016/j.ensm.2024.103559 Xia Sun 1, ...

Defects in carbon exhibit high activity and fast kinetics, which can enhance the energy and power densities of sodium-ion (SIBs) and potassium-ion bat...

A remarkable energy storage density (~3.23 J cm⁻³) along with a high energy storage efficiency (~88.2%) was obtained simultaneously at an applied electric field of 290 kV cm⁻¹;

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The use of non-metal charge carriers such as ammonium (NH₄⁺) in electrochemical energy storage devices offers advantages in terms of weight, element abundance, and compatibility ...

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