

Among different energy storage solutions, the rechargeable aqueous Zn-MnO₂ batteries are very promising due to their low cost, high environmental benignity and high energy, potentially two...

All-solid-state lithium metal batteries (ASSLMBs) are considered as one of the ultimate goals for the development of energy storage systems due to their high energy density ...

The introduction of hierarchical porosity into materials has led to a significant improvement in the performance of materials. Herein, recent progress in the applications of ...

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In addition, the power density and the specific energy density reach 260 mW cm⁻² and 870 W h kg Zn⁻¹. We discover that the Fe-Co dual sites embedded in N-doped porous carbon are beneficial for the activation of ...

3 ???· Known for their high energy density, lithium-ion batteries have become ubiquitous in today's technology landscape. However, they face critical challenges in terms of safety, ...

Reversible protonic ceramic electrochemical cells (R-PCECs) are very promising as energy conversion and storage devices with high efficiency at intermediate temperatures (500-700 °C).

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