

VO₂(B) is considered as a promising anode material for the next-generation sodium-ion batteries (SIBs) due to its accessible raw materials and considerable theoretical capacity. However, the ...

Integrating sulfion-rich wastewater purification with photo-charging Zn-Air batteries enables dual benefits for solar energy storage and environmental protection. However, photo-charging ...

Photo-rechargeable batteries (PRBs) can provide a compact solution to power autonomous smart devices located at remote sites that cannot be connected with the grid. The study reports the ...

The abundant resource of sodium (Na) makes the Na-ion batteries a promising alternate to the Li-ion batteries in electric energy storage, especially when iron (Fe)-based ...

This systematic investigation comprehensively explores and contrasts the systematic manipulation of the electronic structure of polar bifunctional catalysts through the ...

Sodium-ion batteries (SIBs) are expected to be an effective solution for energy storage to be applied to various electronic devices due to their cost-effective performance and similar ...

Therefore, the Li-S battery with Bi₂Te₃/TiO₂ TI heterojunction modified separator achieves high utilization of sulfur cathode, delivering a high reversible specific capacity of 1375 ...

Lithium-ion batteries and sodium-ion batteries have obtained great progress in recent decades, and will make excellent contribution in portable electronics, electric vehicles and other large-scale ...

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