

Sodium metal is a very promising anode for energy storage and conversion in the post lithium ion battery era because of its high capacity (1166 mA h g⁻¹), earth-abundance and low cost.

Pretreatment of reed by ball-milling in the presence of p-toluenesulfonic acid (p-TsOH) led to a significant reduction in hemicellulose (78%) and lignin (67%) content. After this pre-treatment ...

To celebrate Xiamen University's 100th anniversary, this Special Issue features a collection of articles by the faculty and alumni of Xiamen University, covering a broad scope of topics ...

Tao Wang's 31 research works with 865 citations and 2,834 reads, including: (Energy Technology Division Graduate Student Award sponsored by BioLogic) Probing and Engineering Electrode ...

Lithium (Li) metal batteries with high energy density are of great promise for next-generation energy storage; however, they suffer from severe Li dendritic growth and an unstable solid ...

The microstructures of SiCf/SiC composites irradiated with 400 keV C⁺ and then 200 keV He⁺ at 633 K and annealed post-irradiation at 1073, 1273, and 1473 K for 5 h were analyzed.

Ji-Guang Zhang. Rechargeable lithium-metal batteries (LMBs) are regarded as the "holy grail" of energy-storage systems, but the electrolytes that are highly stable with both a lithium ...

The 4th Asia-Pacific Conference on Energy Storage and Conversion (APEnergy2023) was held at Xiamen University from November 25-28, 2023. The conference attracted over 500 experts and...

His research interests include surface/atomic engineering of nanomaterials for energy storage devices, photocatalytic, photoelectrocatalytic, and electrochemical H₂O splitting, CO₂ ...

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