Zhou jintao energy storage

The HST scheduling strategy and storage hydrogen are shown in - "The Research of Hydrogen-Electric Coupled Energy Microgrid and Its Application"

Alkaline all-iron ion redox flow batteries (RFBs) based on iron (III/II) complexes as redox pairs are considered promising devices for low-cost and large-scale energy storage. However, present ...

It is desirable to develop long cycle life and low-cost electrical energy storage batteries to store the generated energy for the moments we need power when there is no sunshine or wind.

His research interests include the rational design & synthesis of electrode materials for advanced electrocatalysis, electrochemical energy storage and conversion (e.g.,metal-air batteries, ...

Large-scale energy storage batteries are crucial in effectively utilizing intermit-tent renewable energy (such as wind and solar energy). To reduce battery fabri-cation costs, we propose a ...

A Reduced-Order Electrochemical Battery Model for Wide Temperature Range Based on Pareto Multi-Objective Parameter Identification Method Yansong Wang, Boru Zhou, Yisheng Liu, ...

Zhou, Jintao, Wu, Enjie, Hu, Yinghe, Jiang, Ming, Liu, Chang, Xue, Luyun, Li, Heyi, Liu, Yuanjun, Zhuang, Xupin (2025) Structurally resilient carbon nanofiber aerogels from aramid nanofibers ...

A large energy density of 20.0 J·cm-3 along with a high efficiency of 86.5%, and remarkable high-temperature stability, are achieved in lead-free multilayer ceramic capacitors.

His research is mainly focused on the design of functional zwitterionic hydrogels and exploring their applications in wearable electronics and energy storage devices.

Hydrogen is one of such fuels, which is a potential energy carrier for reducing greenhouse-gas emissions. However, its shipment for long distances and storage for long ...

Renewable energy sources, such as solar and wind energy, are random, intermittent, and uncontrollable. It is desirable to develop long cycle life and low-cost electrical ...

Jintao Liu"s 23 research works with 747 citations and 821 reads, including: Stable lithium metal anode enabled by a robust artificial fluorinated hybrid interphase

Oxygen reduction reaction (ORR) and oxygen evolution reaction (OER) play curial roles in electrochemical

energy conversion and storage, including fuel ...

?Huazhong University of Science and Technology? - ??Cited by 933?? - ?All iron flow battery? - ?self-stratified battery? - ?membrane-free cell? - ?TEMPO materials?

Jintao Zhang"s 19 research works with 199 citations and 375 reads, including: One-pot synthesis of carbon coated Cu-doped ZnIn2S4 core-shell structure for boosted photocatalytic H2-evolution

Such passivation stabilizes the aqueous electrolyte, significantly suppressing the side reaction of the HER that allows ALIBs to obtain a superior long life above 2000 cycles. ...

Affiliations 1 College of Energy Storage Technology, Shandong University of Science and Technology, Qingdao 266590, China. 2 College of Electrical Engineering and ...

Aqueous Zn ion batteries (AZIBs) are considered as one of promising candidates for new-generation electrochemical energy storage applications owing to the intrinsic safety, high ...

By employing both strategies, a record high energy density in BF-ST is attained in multilayer ceramic capacitors. This work sheds new light on designing ultrahigh energy storage materials ...