

JH Solar

Cuiguyuan energy storage



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Energy & Environmental Science, 2021, 14: 1439. Yu Gu *, Hao Yan, Wei-Wei Wang, Xia-Guang Zhang, Jiawei Yan, and Bing-Wei Mao*. Unraveling the Mechanism of Very Initial Dendritic ...

Wave-like Cu substrate with gradient {100} texture for anode-free

A wave-like Cu substrate with gradient {100} texture has been proposed as the current collector for anode-free lithium batteries. The periodic wave-like structure endows the ...



A Universal Strategy toward Air-Stable and

A universal strategy of introducing proper Na vacancies into a crystal lattice is proposed to simultaneously improve air-stability and kinetics of O3-type layered oxide cathodes. The dual improvement

CTG's first independent energy storage power station ...

China Three Gorges Renewables (Group) Co., the alternative energy arm of China Three Gorges Corporation (CTG), announced that it has

successfully commissioned the ...



Energy Storage Materials , Vol 66, 25 February 2024

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Molecular-level precursor regulation strategy aids fast-charging ...

His research interests are mainly focused on the controllable synthesis of energy storage materials and the exploration of structure-performance relationships in their battery ...



Angewandte Chemie International Edition

Abstract Polymer electrolytes are crucial for advancing safe, high-energy-density lithium batteries. Therefore, such electrolytes must possess stability with high-voltage cathodes and lithium metal

Sulfur confinement via C-S bonding for stable ...

Aqueous Zn-S batteries face challenges in sulfur conversion reversibility and cathode stability. Here, we introduce a chemical confinement strategy using an alkene-containing Th-BE monomer to ...

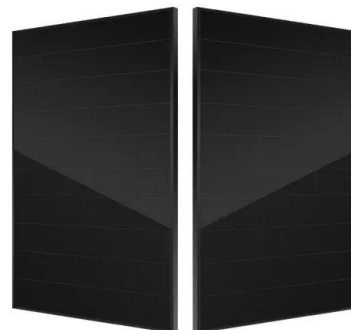


The Jing Ma Group

Energy Storage Materials. 2020, 26, 494-502. Mi Tang, Cheng Jiang, Shiyuan Liu, Xiang Li, YuanChen, Yanchao Wu, Jing Ma, Chengliang Wang*, Small amount COFs enhancing storage ...

In situ converting the native passivation layer into a fast ion

Aqueous zinc batteries offer significant potential for large-scale energy storage, wearable devices, and medium-to low-speed transportation due to the...



Simultaneously achieved temperature-insensitive high energy ...

For dielectric capacitors, the energy storage density, efficiency, and their thermal stabilities are pivotal elements for practical applications. Dielectric materials with high energy ...

2 D Materials for Electrochemical Energy Storage: ...

2 D is the greatest: Owing to their unique geometry and physicochemical properties, two-dimensional materials are possible candidates as new electrode materials for widespread application in ...



Chemically resistant Cu-Zn/Zn composite anode for

Rechargeable aqueous Zn metal batteries are promising candidates for renewable energy storage. However, Zn metal is chemically active and suffers from...

Frustrated lewis pairs regulated solid polymer electrolyte enables

Long-cycling dendrite-free solid-state lithium metal batteries (LMBs) require fast and uniform lithium-ion (Li+) transport of solid-state electrolytes (SSEs). However, the SSEs ...



The Largest Grid-Connected Energy Storage Station In The ...

In 2021, the Qingyun Energy Storage Power Station project settled in Qingyun County and was one of the first seven provincial-level energy storage demonstration projects.

Quantum Computational Advantage Enhanced with New Study

A research team has successfully designed a 66-qubit programmable superconducting quantum computing system named Zuchongzhi 2.1, significantly enhancing the quantum computational ...



High ionic conductivity conjugated artificial solid ...

Lithium metal batteries (LMBs) are promising for next-generation high-energy-density batteries but suffer from severe interface instability on reactive Li metal, resulting in poor cycling performance and ...

Cu-mediated bipolar-type extended π -conjugated microporous ...

Abstract Engineering lithium-ion battery (LIB) cathode materials with high energy density and fast-charging capability plays a significant role in the development of next ...



Advanced Energy Materials

The development of large-scale energy storage systems (ESSs) aimed at application in renewable electricity sources and in smart grids is expected to address energy ...

Facile and rapid synthesis of ultrafine RuCo bimetallic anchored ...

Hydrogen energy, as an important product of water splitting, is an ideal clean energy source. In recent years, water electrolysis has become an effective and sustainable ...



Significantly Enhanced Breakdown Strength and ...

They possess both high breakdown strength and large dielectric polarization simultaneously. An ultra-high energy-storage density of 18.8 J cm^{-3} can be achieved by adjusting the volume fraction of ceramic ...

[Publications , Liu group@JHU](#)

Highlighted by C& EN. 10. Design of complex nanomaterials for energy storage: Past success and future opportunity Y. Liu, G. Zhou, K. Liu, Y. Cui*, *Accounts of Chemical Research*, 2017, 50, ...



The heterointerface engineering triggers hydrogen spillover ...

The alkaline water electrolysis holds great potential in industrial green hydrogen production, and the design and synthesis of electrocatalysts with excellent alkaline hydrogen ...

An irreversible electrolyte anion-doping strategy toward a superior

Rechargeable batteries play an important part in modern society for the management of electrical energy. Most of recent investigations are mainly focusing on non ...

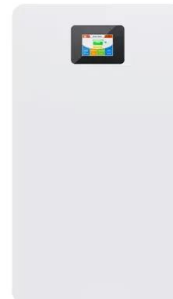


Advanced Energy Materials

The development of large-scale energy storage systems (ESSs) aimed at application in renewable electricity sources and in smart grids is expected to address energy shortage and environmental issues.

Enhancement of recoverable energy density and efficiency of ...

Among current energy storage devices, including of supercapacitors, battery and electrolytic capacitors, the dielectric capacitors are enabling electric energy devices because of ...



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