Yinyan energy storage and environmental protection

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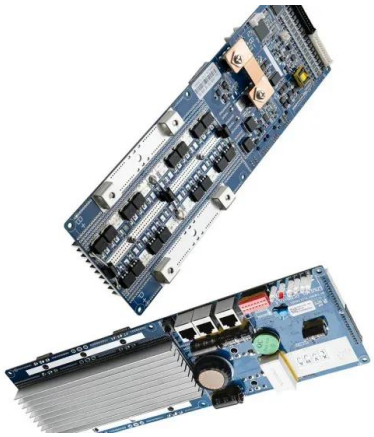
Nanosized Cu-MOFs induced by graphene oxide and ...

Abstract Various MOFs with tailored nanoporosities have recently been developed as potential storage media for CO 2 and H 2. The composites ...

Environmental Stability of MXenes as Energy Storage Materials

MXenes can be used in various research fields, including ceramics, conductive polymer, energy storage, sensors, water purification, catalysis, thermoelectric conversion, ...



Dr Yinyan Liu

With an interdisciplinary background in Engineering, Computer Science, and Renewable Energy Systems, Yinyan focuses on using data-driven methods to enhance the efficiency and ...

Yinyan Liu

I am currently a Postdoctoral Research Associate at the School of Photovoltaic and Renewable Energy Engineering, University of New South

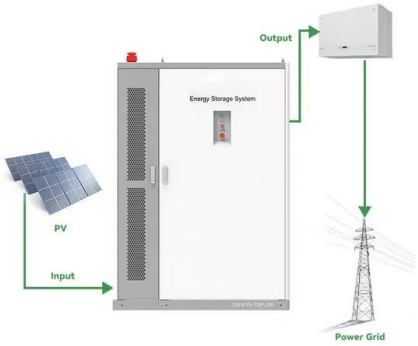
Wales (UNSW), Australia, and simultaneously ...

Sweat-based wearable energy harvesting-storage ...

This study demonstrates the first example of a stretchable and wearable textile-based hybrid supercapacitor-biofuel cell (SC-BFC) system. ...

Interface-modulated nanocomposites based on polypropylene for ...

Polymer dielectrics with excellent energy storage properties at elevated temperatures are highly desirable in the development of advanced electrostatic capacitors for ...



Carbon-Based Metal-Free Electrocatalysis for Energy ...

Subsequently, various carbon-based electrocatalysts have been developed to replace noble metal catalysts for low-cost renewable generation ...

Strategies for improving ionic conductivity and mechanical ...

As a result, the strategic incorporation of electrospun nanofibers into SPEs significantly boosts lithium-ion conductivity, transference number, and mechanical strength, ...

Yinyan Hou's research works , Wuhan Textile University and ...

For environment-friendly dyeing, electrochemical dyeing method was researched. The low consumption of additives during dyeing is beneficial to environmental protection,and the ...

Environmental Protection and Investment Arbitration: Yin and ...

Introduction Environmental protection can be wide-ranging and touch upon many different issues. The award in the arbitration regarding the Iron Rhine Rai /wqy noted that:"[ ] 'environment'is ...

Environmental Protection and Investment Arbitration: Yin and ...

Introduction Environmental protection can be wide-ranging and touch upon many different issues. The award in the arbitration regarding the Iron Rhine Rai-lway noted that: "[ ] 'environment

Energy Environmental Protection

Call for Papers on "New Energy and Solid Waste Recycling" 2026 Call for Papers: Low Carbon and Environmental Protection in the Iron and Steel and Nonferrous Industries

School of Environment, Beijing Normal University

Environmental flow assessment and management for lake-marsh systems, Ministry of science and technology, China, 2017/07-2021/12, Principle Investigator Eco-friendly ...

Exploring the energy-economy-environment paradox through Yin-Yang

Adopting a symbiotic perspective, this study aimed to examine the paradoxical interrelationship of the energy-economy-environment nexus through the novel lens of Yin-Yang cognitive ...

The impact of ecological environment pressure on renewable energy

The ecological environment forms the essential basis for human society's survival and progress. However, the growing pressure exerted on it by human economic ...

Energy Storage Science and Technology

Energy storage is the key technology to support the development of new power system mainly based on renewable energy, energy revolution, construction of energy system ...

Graphene oxide: A promising nanomaterial for energy and environmental

As a consequence, GO and GO-based composites have shown great potentials in the applications of energy storage/conversion and environment protection. Figure 1 shows the ...

3D nitrogen doped bimetallic phosphate superstructure for ...

Growing emphasis on environmental protection highlights an urgent need for electrochemical energy storage solutions that are environmentally sustainable [1]. ...

Energy storage technology innovation, performance appraisal ...

In this process, the development of energy storage technology reduces the energy system's dependence on high-carbon emission energy sources, thereby enhancing ...

Huayi YIN , Professor , PhD , Wuhan University, ...

Research Progress towards the Corrosion and Protection of Electrodes in Energy-storage Batteries Article Feb 2023 Pin Du Dongxu Liu Xiang Chen

Journal of Energy Storage , Vol 111, 1 March 2025

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Ecological power of energy storage, clean fuel innovation, and ...

This study explores the impact of energy storage innovation, clean fuel innovation, and energy-related R& D expenditures on sustainable development. The empirical ...

From anode to cell: synergistic protection strategies and ...

Zn metal anode inevitably suffers from the dendrite growth, hydrogen evolution reaction, and surface passivation in aqueous zinc ion batteries (AZIBs), which have significantly ...

Shanghai Yin energy saving and environmental protection ...

News Details ??????,?????? [2015-03-12] ?????????????????? [2014-09-17] ???????????????? [2014-09-06] ????:???"?"? ...

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Energy Storage across Multiple Energy Systems

Sensing as the key to the safety and sustainability of new energy storage devices New energy storage devices such as batteries and supercapacitors are widely used in ...

Energy Conservation and Environmental Protection

The scope of solicitation includes but is not limited to: high-tech products and demonstration project results in the field of energy conservation and environmental protection, technological ...

Exploring the energy-economy-environment paradox ...

Adopting a symbiotic perspective, this study aimed to examine the paradoxical interrelationship of the energy-economy-environment nexus ...

Sensing as the key to the safety and sustainability of ...

Poor monitoring can seriously affect the performance of energy storage devices. Therefore, to maximize the efficiency of new energy storage ...

Enabling a Sustainable Future Energy Storage with

4 ???· As the fourth-largest energy source after coal, oil, and natural gas, biomass offers natural advantages such as renewability, degradability, and low carbon emissions [4]. They ...

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