

Focusing on clean energy conversion, storage and utilization, and environmental protection disciplines. Our aim is to inspire innovation, advance knowledge and promote research collaboration . Contributing to the development of sustainable ...

The multiatomic Co_x-Ni multiatom catalyst shows an exceptionally high H₂O₂ yield in acidic electrolytes (28.96 mol L⁻¹ g cat.⁻¹ h⁻¹) by oxygen reduction reaction (ORR) and selectivity under acidic to neutral conditions in a wide potential region (>80%, 0-0.7 V) situ X-ray absorption spectroscopy and density functional theory analyses reveal that the Co₂NiN ...

The proposed system is intended to be an entirely green system (100% renewable). A novel demand response strategy to work synergistically with energy storage systems to remedy the effect of the intermittent nature of ...

We are happy to share some exciting news with you! The Advanced portfolio welcomes a long-anticipated new member that continues our editorial commitment to excellence and rigorous publishing standards. Advanced Intelligent Discovery is the first gold Open Access journal in the Advanced portfolio dedicated to broad-scope research in machine learning, computational ...

Explore electrochemistry enabled energy conversion and storage technologies. Submission deadline: 30 June 2024. The special issue aims at all aspects of energy conversion and storage technologies based on ...

IET Electrical Systems in Transportation is a fully open access journal that invites original research and review articles strongly aligned with any aspect of electrical transport, including but not limited to: All aspects of the hybrid, more or all electric propulsion systems or drivetrains: Electrical propulsion drive system

Following this trend, energy storage systems (ESS) are bound to play an important enabling role in future energy systems. Moreover, energy storage is also an essential part of residential storage solutions, which are key drivers of the low-carbon society that seeks resilience in the face of climate change effects.

The origin of photon energy loss (E_{loss}) behind high open-circuit voltage is investigated for ternary polymer solar cells. Adding a small amount of nonfullerene acceptor to fullerene-based binary devices significantly suppresses E_{loss} while maintaining the recombination center of polymer/fullerene interface. This is due to reduced radiative and ...

New electrolyte systems are an important research field for increasing the performance and safety of energy storage systems, with well-received recent papers published in Batteries & Supercaps since its launch last

year. Together with Maria Forsyth (Deakin University, Australia), Andrea Balducci (Friedrich-Schiller-University Jena, Germany), and Masashi ...

Call for Papers Energy Storage for Green Transition of Electrical Grids. Submission deadline: Saturday, 1 July 2023 . Energy storage systems (ESS) are needed in Smart Grids both at the generation and distribution levels, and different types of ESS have widely different characteristics and are suitable for different tasks and situations.

This Minireview describes the limited energy density of aqueous energy storage devices, discusses the electrochemical principles of water decomposition, and summarizes the design strategies for high-voltage ...

Journal of Renewable Energy is a peer-reviewed, Open Access journal that publishes papers relating to the science and technology of energy generation, distribution, storage, and management. It also publishes studies into the environmental, societal, and economic impacts of renewable energy use and policy.

Explore electrochemistry enabled energy conversion and storage technologies. Submission deadline: 30 June 2024. The special issue aims at all aspects of energy conversion and storage technologies based on electrochemistry, including but not limited to metal-ion/air/CO₂ batteries, aqueous batteries, electrocatalytic water /oxygen/nitrogen/carbon dioxide ...

1 Introduction. The term "energy" is defined as the ability to do work. Energy is essential for daily activities and helps the mind and body grow; it has the ability to determine the growth of an economy and the development of a country [1, 2] untries in the world, based on the amount of effective energy produced and used, are wisely classified as underdeveloped, ...

Synthetic polymers are an alternative to conventional storage media because they maintain stored information while using less space and energy. However, data retrieval by mass spectrometry limits the length and thus the storage capacity of individual polymer chains.

We are excited to announce the launch of new journal: Energy Storage. Energy Storage provides a unique platform to present innovative research results and findings on all areas of energy storage. The journal covers novel energy storage systems and applications, including the various methods of energy storage and their incorporation into and integration with both conventional ...

Dr. Ibrahim Dincer, Editor-in-Chief of Energy Storage, is a full professor of Mechanical Engineering at University of Ontario and adjunct professor at Faculty of Mechanical Engineering of Yildiz Technical University. Renowned for his pioneering works in the area of sustainable energy technologies he has authored/co-authored numerous books and book chapters, and many ...

Rechargeable room-temperature sodium oxygen (Na/O₂) batteries are potentially one of the next-generation

high energy and low-cost energy storage devices. This progress report specifically focuses on obstacles that hinder the technical development of this battery technology, shedding light on recent technological achievements, and the remaining ...

World Young Scientist Summit - International Symposium on Carbon Energy and Wenzhou Academician Forum; 19-22 November, 2021; International Carbon Energy Symposium & Carbon Neutral Science Summit 2021; 15-18 November, 2019; Wiley-WZU 2019 International Symposium on Functional Materials for Energy Storage and Conversion

Journal of Energy is a peer-reviewed, Open Access journal that publishes papers relating to the science and technology of energy generation, distribution, storage, and management. It also publishes studies into the environmental, societal, and economic impacts of ...

In the field of energy storage, AI promises to accelerate the analysis of state-of-the-art batteries and supercapacitors, the discovery of new materials and interfaces, as well as the optimization of their performance and ...

Enhancing solubility of redox materials: Recently, large-scale energy storage technologies such as redox flow batteries have been widely implemented. Solubility limitations have become an obstacle to further development of aqueous flow batteries. This review focuses on strategies for enhancing the water solubility of redox materials.

Beyond the traditional applications of Battery Energy Storage Systems (BESSs), they have also emerged as a promising solution for some major operational and planning challenges of modern power systems and microgrids, e.g., enabling the integration of renewable energy sources by reducing their intermittency, and improving the voltage, ...

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