

Design and construction of integrated energy conversion and storage systems (IECSSs) has attracted remarkable research interests to ...

For energy-related applications such as solar cells, catalysts, thermo-electrics, lithium-ion batteries, graphene-based materials, ...

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It is emphasized that, to further enhance the capability of nanostructured materials for energy conversion and storage, new mechanisms and structures are anticipated.

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Research in the period from roughly 2000 to 2010 has shown that nanotechnology is a powerful tool for a host of processes in support of efficient, sustainable energy conversion, ...

Through the synergy between the PCMs and CuS nanoparticles, the photo-to-thermal conversion efficiency of the PCMs is improved and high energy conversion and ...

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Energy transformation or energy conversion is the process of transforming energy from one form to another. According to the law of conservation of energy, energy can ...

In this article, the applications of MXenes in energy conversion mainly include water splitting and solar cells, while those in energy storage will cover batteries and ...

Acknowledgments As a Guest Editor of the Special Issue titled "Nanomaterials and Nanotechnology for Energy Conversion and Storage", I would like to express my deepest ...

In the transition to decarbonized energy systems, Power-to-Gas (PtG) processes have the potential to connect the existing markets for electricity and hydrogen.

Energy storage and conversion are vital for addressing global energy challenges, particularly the demand for clean and sustainable energy. Functional organic materials are gaining interest as ...

As the world works to move away from traditional energy sources, effective efficient energy storage devices have become a key factor for success. The emergence of ...

Tunable ultrafast electron transport makes them unique candidate for solid-state energy conversion, harvesting, and storage applications. Recent advancements and technical ...

The energy devices for generation, conversion, and storage of electricity are widely used across diverse aspects of human life and various ...

Mesoporous materials are finding increasing uses in energy conversion and storage devices. This Review highlights recent developments in the synthesis of mesoporous ...

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5 · An integrated thermoelectric conversion and energy storage (PITCS) device leveraging the precipitation-driven thermogalvanic effect is presented, achieving a record energy density ...

The last decade has seen a rapid technological rush aimed at the development of new devices for the photovoltaic conversion of solar energy and for the electrochemical ...

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Over the last few decades, there has been increasing interest in the design and construction of integrated energy conversion and storage systems (IECSSs) ...

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The unique architecture enables electrochemical energy conversion and storage by providing a large surface area, which is rich in surface defects, for catalytic charge transfer ...

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Over the last few decades, there has been increasing interest in the design and construction of integrated energy conversion and storage systems (IECSSs) that can simultaneously capture ...

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Abstract Electrochemical energy conversion and storage (EECS) technologies have aroused worldwide interest as a consequence of the rising demands for renewable and ...

The energy devices for generation, conversion, and storage of electricity are widely used across diverse aspects of human life and various industry. Three-dimensional (3D) printing has ...

The efficient integration of photovoltaic conversion and energy storage technologies is critical to overcoming constraints in solar energy utilization...

To address climate change and promote environmental sustainability, electrochemical energy conversion and storage systems emerge as promising alternative to ...

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