

Temporary power outages often occur in Africa, India, and other regions. To overcome these inconveniences in people's daily life, this multifunctional ...

To overcome these inconveniences in people's daily life, this multifunctional energy storage device can convert solar energy into electrical energy and ...

The ever-growing pressure from the energy crisis and environmental pollution has promoted the development of efficient multifunctional electric devices. The energy storage ...

Here, we report on the fabrication of a pressure sensor as well as a supercapacitor based on porous bismuthene-graphene architecture. Our multifunctional device ...

This research assembled a multifunctional magnetic heterodimensional structure through interface and defect engineering, and conceived an innovative hybrid energy storage ...

In [4], a general energy storage system design is proposed to regulate wind power variations and provide voltage stability. While CAES and other forms of energy storage ...

Current state-of-art examples of these smart multifunctional energy devices, pertinent to materials, fabrication strategies, and performances, are highlighted. In addition, ...

Structural batteries are an emerging class of multifunctional electrochemical energy storage devices that combine mechanical load-bearing capabilities with energy storage. ...

The combination of various ESSs has the potential to address complex energy storage challenges and create multifunctional large-scale stationary ESS with high energy ...

Abstract Multifunctional energy storage and conversion devices that incorporate novel features and functions in intelligent and interactive modes, represent a radical advance in consumer ...

Energy storage devices are arousing increasing interest due to their key role in next-generation electronics. Integration is widely explored as a general and effective strategy aiming at high ...

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Nonetheless, the integration of these dual functionalities into a singular apparatus poses a persistent challenge. Considering this, this paper ...

Importantly, based on this, an integrated multifunctional EM wave recovery device has been developed that can effectively convert harmful EM energy into electrical energy and store it. ...

The applications of multifunctional ECDs for energy storage, multicolor displays, deformable devices, self-chargeable devices, smart windows, actuators, etc., ...

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The EC energy storage performance of a single electrode and multifunctional device was measured in situ by a combination of a ...

A film of Mo-WO₃ is investigated for multifunctional purposes, acting as both an electrochromic (EC) and energy storage device (ESD). As an EC film, it exhibits an optimal ...

The utility model provides a portable multifunctional energy storage device, which comprises a shell and a heat dissipation net symmetrically arranged on the top surface of the shell, wherein ...

Energy harvesters [14], wireless energy transfer devices, and energy storage devices are integrated to supply power for the long-term monitoring of human physiological ...

By analyzing the challenges in materials design and fabrication of multi-functional devices, this review offers valuable insights for researchers and industry professionals, ...

Multifunctional energy storage and conversion devices that incorporate novel features and functions in intelligent and interactive modes, represent a radical advance in ...

The motivation for this work is driven by the need to find practical solutions to current challenges in energy access and management. The proposed research embarks on a ...

Multifunctional energy storage device

Electrochromic energy storage devices (EESDs) including electrochromic supercapacitors (ESC) and electrochromic batteries (ECB) have received significant recent attention in wearables, ...

The application discloses a multifunctional energy storage device which comprises at least one first module and at least one second module, wherein the first module and the second module ...

A high-performance electrochromic-energy storage device (EESD) is developed, which successfully realizes the multifunctional combination of electrochromism ...

Energy storage devices are arousing increasing interest due to their key role in next-generation electronics. Integration is widely explored as a general and effective strategy aiming at high ...

With the growing market of wearable devices for smart sensing and personalized healthcare applications, energy storage devices that ensure stable power ...

Electrochemical energy storage has become a key part of portable medical and electronic devices, as well as ground and aerial vehicles. Unfortunately, conventionally ...

This work reports the development of a multifunctional thermionic power textile device merging thermal energy harvesting and electrochemical energy storage for application ...

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