

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

Integrating the energy storage unit and sensing unit into a single system may provide efficient ways to solve these above problems, promoting potential applications in ...

Electrical energy storage plays a vital role in daily life due to our dependence on numerous portable electronic devices. Moreover, with the continued miniaturization of ...

This work investigated the thermal performance of a 20-foot cold energy storage device integrated with a novel fin-plate unit, which was used for providing the cold source for ...

Due to the variable nature of the photovoltaic generation, energy storage is imperative, and the combination of both in one device is appealing for more efficient and easy-to-use devices. ...

Hybrid energy storage systems (HESS), which combine multiple energy storage devices (ESDs), present a promising solution by leveraging the complementary strengths of ...

The applications of energy storage systems have been reviewed in the last section of this paper including general applications, energy utility applications, renewable ...

Recent research on synergistic integration of photoelectric energy conversion and electrochemical energy storage devices has been focused on achieving sustainable and reliable power output. ...

Flexible fiber-shaped energy storage devices have been studied and developed intensively over the past few years to meet the demands of modern electronics in terms of flexibility, weavability ...

In this review, we focus on recent advances in energy-storage-device-integrated sensing systems for wearable electronics, including tactile sensors, temperature sensors, chemical and ...

Self-rechargeable aqueous Zn^{2+}/K^{+} electrochromic energy storage device via scalable spray-coating integrated with marangoni flow Rahuldeb Roy a b, Greeshma R c, ...

An integrated dual-function energy device for both electrochemical energy storage and catalytic oxygen evolution has been proposed. The integrated device, based on the earth ...

Aiming at the problem of low data acquisition accuracy of energy storage device caused by using a single

sensor or acquisition scheme in the existing methods, a new data acquisition method ...

o Typical energy harvesting and storage devices have been highlighted. o Recent advance in eight types of integrated devices have been reviewed. o Future development trend ...

Since respiration responds to many health conditions, it is essential to monitor respiratory signals by constant humidity changes. Herein, a strategy for continuous, wireless, ...

In recent years, the rapid progress in aqueous flexible energy storage devices (AFESD) has further underscored the potential of HFs as fundamental building blocks for next ...

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