

Based on these observations, we develop a single-photon photo-charging device with a solar-to-chemical conversion efficiency over 9.4% for a redox flow cell system.

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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Solar rechargeable batteries (SRBs), as an emerging technology for harnessing solar energy, integrate the advantages of photochemical devices and redox batteries to ...

By adopting thus-integrated photo-rechargeable systems, intermittent solar energy could be properly stored; in addition, the output power could be delivered in more ...

This device shows synergic performance of solar energy harvest and storage, as well as light and thermal transmission control. Dense and mesoporous WO₃ thin films are ...

The common photovoltaic cells (PVs) only convert solar energy into electric energy for the straight usage to energy clients, without the enduringly stored function (Fig. 1a). ...

The last ten years have witnessed a significant increase in the development of integrated devices, and among all, solar cells paired with electrochemical energy storage ...

Efficient energy storage technologies for photovoltaic systems 1. Introduction. Over the past decade, global installed capacity of solar photovoltaic (PV) has dramatically increased as part ...

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Solar energy is clean, green, and virtually limitless. Yet its intermittent nature necessitates the use of efficient energy storage systems to achieve effective harnessing and ...

In this study, we present a new self-charging energy storage device by investigating chemical processes for air-based recharging in photo-assisted Zn-ion technology, ...

Solar energy is considered the most promising renewable energy source. Solar cells can harvest and convert solar energy into electrical energy, which needs to be stored as chemical energy, ...

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