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Title: Photothermal composite solar container energy storage system

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Technologies that can simultaneously generate electricity and desalinate seawater are highly attractive and required to meet the increasing global demand for power and clean ...

Au/Ag-Pd nanostructures loaded with phase-change material (Au/Ag-Pd/PCM) are designed as visible-light absorbers, enabling photothermal storage and reduced thermal losses.

Herein, we proposed a composite photothermal structure with energy storage (CPSES) to achieve efficient water evaporation, energy storage/release, and effective thermal management for ...

Based on PCMs, photo-thermal conversion phase-change composite energy storage technology has advanced quickly in recent years and has been applied to solar ...

In this study, a composite of porous carbon and MoS₂ was loaded into a porous aerogel of poly (vinyl alcohol) (PVA)-chitosan (CS) by directed freezing to produce stable and ...

PTPCESMs can alter their physical state or properties by utilizing solar radiation, absorbing excess heat during peak sunlight periods, and releasing heat when solar intensity is lower or ...

The obtained PCM microcapsules have good thermal stability and durability, with a PCM core content of up to 88.9% and a phase change enthalpy of 214.3 J g⁻¹, which is ...

This study presents a dual continuous network strategy to simultaneously enhance photothermal conversion and thermal conductivity for improved solar thermal storage.

Herein, a novel strategy that involves the in situ polymerization of pyrrole on *Pleurotus eryngii* (Pe) biomass,

addressing these challenges by improving light absorption ...

The surface morphology, heat storage capacity, and reliability of CNT-BN-SA-1 were systematically studied. The melting temperature (DT_m) of CNT-BN-SA-1 is 51.83 °C and the ...

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