

In summary, the hygroscopic assisted solar photo-thermal-electric conversion ...

Moreover, photothermal PCM microcapsules are particularly desirable for solar energy storage. Herein, we fabricated photothermal PCM microcapsules with melamine ...

Photothermal phase change energy storage materials (PTCPCEsMs), as a special type of PCM, can store energy and respond to changes in illumination, enhancing the ...

1 ???· Central to SSG is solar photothermal conversion that requires efficient light harvesting and management. Hierarchical structures with multi-scale light management are therefore ...

Photothermal phase change energy storage materials (PTCPCEsMs), as a special type of PCM, can store energy and respond to changes in illumination, enhancing the efficiency of energy systems and ...

MXene/d-mannitol aerogel phase change material composites for medium-temperature energy storage and solar-thermal conversion. *J. Storage Mater.*, 67 ... Form ...

The high-energy photons from the solar spectrum can be absorbed by the upper MOST layer, and photochemically convert norbornadiene to quadricyclane, storing solar ...

In summary, the hygroscopic assisted solar photo-thermal-electric conversion system for all-day power generation and daytime water collection has been proposed, which ...

6 ???· Scale-up applications in solar energy storage of phase change materials (PCMs) are hindered by the limitation of solid-liquid leakage and the lack of light absorption ability. Porous ...

This solar photothermal/storage system ... (ODA) as solar photothermal conversion/energy storage composite (MSHS@ODA). When used as adsorption media, the ...

In this review, we comprehensively summarized the state-of-the-art photothermal applications for solar energy conversion, including photothermal water evaporation and ...

This study encompassed entire the heat storage/release process, ...

This study encompassed entire the heat storage/release process, encompassing sunny and cloudy conditions, and demonstrated that solar fluctuations resulted in a maximum ...

Dreos et al. have proposed a hybrid solar energy system, where a molecular solar thermal (MOST) energy storage system was integrated with a solar water heating system ...

Currently, energy depletion and environmental pollution pose serious threats to the sustainable development of human society [1], [2]. Harnessing solar energy through ...

One important implementation of photothermal nanomaterials is the solar evaporation technology that allows steam and clean water to be produced from either seawater or wastewater, while the sustainable solar ...

Photothermal energy storage materials [29] PDI/rGO film: Visible, 0.0488 W cm⁻²: 38.7 °C-Photothermal catalysis: CIP degradation [90] 3D graphene nanofluids: ... To ...

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