

Suitable for solar phase change energy storage

This paper briefly reviews recently published studies between 2016 and 2023 that utilized phase change materials as thermal energy storage in different solar energy systems by collecting ...

In this paper, we have overviewed the research conducted to date on phase change materials (PCMs) for photothermal power collection and storage, especially their applications as ...

In order to achieve sustainable utilization of solar energy, many studies have examined the compact solar heating system. When the PCMs are used in the solar energy field for heat storage, the phase ...

PCESMs are employed in the construction industry for passive solar heating, thermal regulation, and energy-efficient building designs. They facilitate effective thermal dissipation in ...

This study numerically investigates a solar-driven humidification-dehumidification (HDH) desalination system integrated with phase change materials (PCMs) for thermal energy storage.

Phase change materials can be applied to various solar energy systems for prolonged heat energy storage, which is relatively sound as the solar energy is discontinuous and is ...

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

In this thesis, the incorporation of a storage system with phase change materials in a domestic water heating system was investigated. The system proposed in this work consists of a ...

Latent thermal energy storage (LTES) and leveraging phase change materials (PCMs) offer promise but face challenges due to low thermal conductivity. This work comprehensively ...

This article designs a high-altitude border guard post that can fully utilize the heat absorbed by solar collectors to continuously store thermal energy during the day and stably release ...



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