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This study provides a comprehensive review of the utilization of artificial intelligence (AI) technology in phase change material (PCM) energy storage. The review primarily focuses ...

Phase change materials are promising for thermal energy storage yet their practical potential is challenging to assess. Here, using an analogy with batteries, Woods et al. ...

Phase change energy storage (PCES) is a cutting-edge method of energy storage that employs phase state changes of phase change materials (PCMs) to efficiently store and ...

To heighten the efficiency of energy transfer for mobile heating, this research introduces the innovative concept of modular storage and transportation. This concept is ...

They have great potential in the smart applications of flexible electronic devices and wearable devices. In order to achieve shape memory properties, several strategies have ...

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 ...

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

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