

Latent heat storage technology plays a crucial role in energy management by storing and releasing thermal energy during phase transitions. This method enhances ...

Phase-change materials (PCMs) are essential modern materials for storing thermal energy in the form of sensible and latent heat, which play important roles in the ...

The objectives for this report are to compare three different phase change material intended for thermal energy storage in a life cycle analysis point of view with both environmental and health ...

The article presents different methods of thermal energy storage including sensible heat storage, latent heat storage and thermochemical energy storage, focusing mainly ...

A Phase Change Material (PCM) is a substance that releases or absorbs enough energy to generate useful heat or cooling at a phase transition. In most cases, the transition ...

The invention discloses an anti-precipitation biodegradable phase change energy storage material as well as a preparation method and application thereof. The ...

The author proposes a phase change heat storage component combined with the light wall interior to improve the heat storage performance. Numerical modelling of the composite wall ...

High-temperature phase-change materials: High-temperature phase-change materials, especially those with valuable material properties, have been used for commercial applications of thermal ...

This paper reviews previous work on latent heat storage and provides an insight to recent efforts to develop new classes of phase change materials (PCMs) for use in energy ...

Traditional phase change materials (PCMs) often face significant challenges, including leakage, insufficient shape stability, and inadequate mechanical properties, which hinder their practical ...

Phase change energy storage materials (PCESM) refer to compounds capable of efficiently storing and releasing a substantial quantity of thermal energy during the phase ...

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