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## New phase change energy storage

To best capitalize on phase change phenomena of materials for thermal storage, material parameters, including molecular motion and entropy, must be mathematically described, so ...

In order to improve the application effectiveness of new phase change energy storage materials in construction engineering, the article conducts research on the characteristics of new phase ...

Download Citation | Simulation of a new phase change energy storage tank design with a vertical baffle | In this study, a new phase change water tank (NPCWT) design with a ...

Conventional phase change materials struggle with long-duration thermal energy storage and controllable latent heat release. In a recent issue of Angewandte Chemie, Chen et ...

Photo-liquefiable azobenzene derivatives enable the simultaneous storage of photon energy and phase-change energy, with the ability to release the stored energy in a ...

It also puts forward prospects and insights for its future development direction. I hope to better promote the integration of new phase change energy storage materials with other building ...

To meet the demands of the global energy transition, photothermal phase change energy storage materials have emerged as an innovative solution. These materials, utilizing various ...

In addition to their applications in energy-related fields, phase-change materials can also restore a preset shape at a specific temperature due to their shape memory effect, which ...

Phase change materials absorb thermal energy as they melt, holding that energy until the material is again solidified. Better understanding the liquid state physics of this type of thermal...



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