JH Solar

Energy storage technology guo chaxiu

Overview

In this paper, NaCl–CuO based composite phase change material (CPCM) was proposed based on the composite material design strategy, and the microstructure model was designed. The microscale s.

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A theoretical study of thermal properties and structural evolution ...

Thermal energy storage and utilization has been widely concerned due to the intermittency, renewability, and economy of renewable energy. In this paper, the potential energy function of ...

Efficient thermal energy storage achieved by NaCl-CuO ...

Great progress has been recently made in terms of enhancing the thermal energy storage capability, transfer rate, conversion efficiency and utilization of composite PCMs.

Efficient thermal energy storage achieved by NaCl-CuO ...

Efficient thermal energy storage achieved by NaCl-CuO composite phase change material: A molecular dynamics study Journal of Molecular Liquids (IF 5.3) Pub Date : 2023-03-05, DOI: ...

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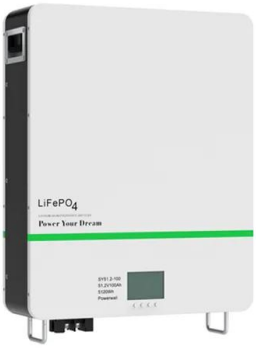
Review of the heat transfer enhancement for phase change heat storage

Then, the application of phase change heat storage technology in different fields is discussed, including building energy saving, thermal management of electronic equipment, ...

Failure analysis and structure optimization of energy storage ...

The results show that the optimized energy storage module 2-1 exhibits improved performance in pressure and temperature differences at the end of charge and discharge compared to the ...



Machine learning techniques to probe the properties of molten ...

Both methods can accurately predict the properties of a binary salt. This work will contribute fresh perspectives to the advancement of machine learning for molten salt thermal energy storage ...

Numerical simulation and parametric study on new type of high

Chaxiu Guo, Wujun Zhang Commercial acceptance and the economics of solar power generation using direct steam technology in parabolic troughs require the design and development of ...

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Key words:effective thermal conductivity;bubble type porous medium;review ?2? ?6? 2013 ? 11 ? ? ? ? ? ? ? Energy Storage Science and Technology Vol.2 No.6 Nov. ...

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"The Future of Energy Storage" report is the culmination of a three-year study exploring the long-term outlook and recommendations for energy storage technology and policy.

Heqing Tian

Efficient Thermal Energy Storage Achieved by NaCl-CuO Composite Phase Change Material: A Molecular Dynamics Study Chaxiu Guo, Jiang Wu, Yinsheng Yu, Heqing Tian Journal of ...

Bacterial cellulose-based Janus energy storage phase change ...

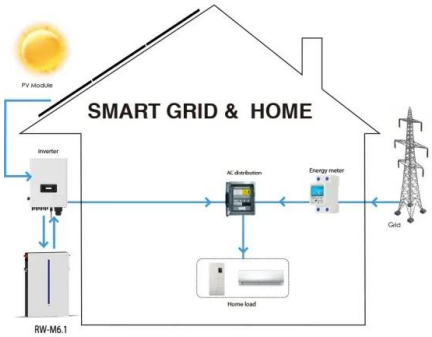
Interfacial solar evaporation systems based on Janus structures exhibit potential application prospects in terms of salt tolerance. However, intermittent and unstable light ...

??????? 21700 ?????????????

Energy Storage Science and Technology, 2022, 11 (1): 127-135. [12] CHEN X, ZHOU F, YANG W, et al. A hybrid thermal management system with liquid cooling and ...

Heqing Tian (0000-0001-6435-4973)

Enhanced thermal properties of ternary chloride composites for thermal energy storage: Insights from molecular simulation International Communications in Heat and Mass Transfer



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Subscribe to Newsletter Energy-Storage.news meets the Long Duration Energy Storage Council Editor Andy Colthorpe speaks with Long Duration Energy Storage Council director of markets and technology Gabriel ...

A theoretical study of thermal properties and structural evolution ...

Thermal energy storage and utilization has been widely concerned due to the intermittency, renewability, and economy of renewable energy. In this paper, the potential ...

Energy Storage Science and Technology

Energy storage technologies show broad application prospects in renewable energy systems such as wind and solar energy, and in the construction of smart grid/micro grids.

LiCl-KCl?????????? ...

??: ????????????Al 2 O 3 ????????????LiCl-KCl???????????,????????? (Nanofluids,NF)???????????? N (r)?????? D ?????????????? ...

Efficient thermal energy storage achieved by NaCl-CuO ...

Article "Efficient thermal energy storage achieved by NaCl-CuO composite phase change material: A molecular dynamics study" Detailed information of the J-GLOBAL is an information ...

Energy Storage Science and Technology

The simulation results show that the active energy storage system has better regulation of power than the passive energy storage system. Through the bi-directional DC-DC converter ...

Studying the performance of phase change heat storage ...

Our official English website,, welcomes your feedback! (Note: you will need to create a separate account there.) Studying the performance of phase change heat storage ...

Chaxiu Guo

??? ???? Studying the performance of phase change heat storage enhanced by ultrasonic energy Chaxiu Guo,Mengxiao Lan,Dongwei Zhang,Xin Wang,Songzhen Tang,Songxuan ...

Machine learning techniques to probe the properties of ...

Tian et al. develop two machine learning strategies to predict the structure and thermal property of a binary chloride salt for thermal energy storage. A neuroevolution potential method yields high ...

Enhanced thermal properties of ternary chloride composites for ...

Currently, some demonstration plants have achieved large-scale energy storage using molten salts. The selection of molten salt materials is crucial for the construction scale, ...

Influence of Different Arrangement on Phase Change Thermal

With the five different thermal conductivity of PCM, the average maximum temperature rise of Rectangular Arrangement was 105. 31% and 106. 02% of that of Quadrilateral Arrangement ...

Enhanced thermal properties of ternary chloride composites for ...

Enhanced thermal properties of ternary chloride composites for thermal energy storage: Insights from molecular simulation International Communications in Heat and Mass Transfer (IF 6.4) ...

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? ?: ?21700???????????,?????????????????????????? ???????? (PCM)???,?????????????????????????? ...

Machine learning techniques to probe the properties of ...

Tian et al. develop two machine learning strategies to predict the structure and thermal property of a binary chloride salt for thermal energy storage. A neuroevolution potential ...

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?? 1. Heqing Tian, Wenhao Dong, Wenguang Zhang, Chaxiu Guo. Machine learning techniques to probe the properties of molten salt phase change materials for thermal energy ...

Research progress of heat storage and heat transfer ...

Phase change thermal energy storage is one of the energy storage technologies with a wide range of applications due to its advantages of high heat storage density and stable phase ...

Enhanced thermal properties of ternary chloride composites for ...

Request PDF , On Oct 29, 2024, Heqing Tian and others published Enhanced thermal properties of ternary chloride composites for thermal energy storage: Insights from molecular simulation , ...

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