

Semantic Scholar extracted view of "Thermal and mechanical degradation assessment in refractory concrete as thermal energy storage container material in concentrated solar plants" by C. Prieto et al.

Phase Change Materials (PCMs) offer significant potential to enhance the efficiency and reliability of solar energy systems by mitigating energy supply intermittency. This review explores the ...

SDW Foldable House. Its bi-wing expansion maximizes space, solid materials guarantee durability (you can see the craftsmanship!), and installation is so simple even your team can do it in hours. Whether ...

China is committed to the targets of achieving peak CO₂ emissions around 2030 and realizing carbon neutrality around 2060. To realize carbon neutrality, people are seeking to replace ...

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A crucial challenge in this transition is device instability. Carbon-based perovskite solar cells offer a promising alternative with the advantages of more abundant materials and stable ...

As the global climate crisis intensifies, ecosystems, human society and economic activities are significantly affected. Countries around the world have successively put forward the goal ...

Carbon-based perovskite solar cells (c-PSCs) have attracted increasing attention due to their numerous advantages including ease of fabrication, the potential of assembling flexible devices,...

The results indicate expanded natural graphite is the most economically attractive option. Graphitic materials can potentially mitigate the issue of low thermal conductivity in phase ...

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Herein, the contribution of carbon materials, including graphitic carbon nitride, is reviewed by classifying solar energy utilization into two categories: direct utilization and conversion ...

Solar still systems often include organic phase change materials (PCMs) because of their remarkable



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thermophysical characteristics. Numerous innovative PCMs have been developed ...

Potential of the thermal energy storage materials especially phase change materials (PCM) is great support to the thermal systems for their performance enhancement especially for ...

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The fluctuation in the solar energy supply due to climatic conditions highlighted the need to develop a novel material for the successful utilization and storage of harvested energy from solar ...



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