Solar energy comprehensive utilization engineering system

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This study proposes an integrated full-spectrum solar energy cascade utilization system that combines spectral splitting with passive cooling. The system utilizes spectral splitting ...

Abstract:In order to address the issue of a solar utilization system with low efficiency, this paper designs a new solar conversion system based on photovoltaic concentration and spectral...

Based on the principle of absorption energy storage, this study designs an interseasonal solar absorption energy storage heating system (ISAES). The system stores ...

This study proposes an integrated full-spectrum solar energy cascade utilization system that combines spectral splitting with passive cooling. ...

A solar energy and device technology, applied in the field of solar energy comprehensive utilization system, can solve the problems of low energy utilization efficiency, ...

The solar energy comprehensive utilization system is low in cost and environmentally-friendly, and can output energy in multiple forms.

In the future, building infrastructure must encompass electricity, heating, and cooling supply, necessitating exploration of innovative solar utilization and control technologies ...

Improving spectral utilization efficiency and mitigating the effects of PV waste heat are top priorities. In order to solve these problems, this study proposes a full-spectrum solar ...

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