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Developing high-efficiency solar photothermal conversion and storage (SPCS) technology is significant in solving the imbalance between the supply and demand of solar energy utilization in time and space. Aiming at the current research status in the field of SPCS, this review thoroughly examines the phase change materials and substrates in SPCS systems. It ...

Over the past decade, global installed capacity of solar photovoltaic (PV) has dramatically increased as part of a shift from fossil fuels towards reliable, clean, efficient and sustainable fuels (Kousksou et al., 2014, Santoyo-Castelazo and Azapagic, 2014).PV technology integrated with energy storage is necessary to store excess PV power generated for later use ...

The application of PV in buildings is mainly divided into two types: building attached photovoltaic systems, which generally refers to the added PV system installed after the completion of the original building, and building integrated photovoltaic systems [4], including PV walls [5], PV roofs, PV curtain walls, PV external windows, PV sun shadings, and other ...

Solar photothermal power generation refers to the use of large-scale array parabolic or dish mirror to collect solar heat energy, through the heat exchange device to provide steam, combined with the traditional turbo ...

intermittent is a major limitation of solar energy, and energy storage systems are the preferred solution to these chal-lenges where electric power generation is applicable. Hence, the type of energy storage system depends on the tech- ... 2.1 Solar photovoltaic systems Solar energy is used in two dierent ways: one through the solar thermal ...

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Photothermal phase change energy storage materials show immense potential in the fields of solar energy and thermal management, particularly in addressing the intermittency issues of solar power.

PV/T system: Comparison of solar photothermal, photovoltaic and PV/T systems in buildings with zero net energy consumption: F. Bernoosi, M.E. Nazari. [32] PV/T cogeneration and cogeneration system: System scale optimization: O.K. Ahmed. et al. [33] PV/T system: Optimization of system operation parameters: L.

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Ouyang. et al. [34] PV/T system

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