

Water scarcity issues around the world have renewed interest in the use of solar water evaporation as a means of providing fresh water. Advances in photothermal materials and thermal management, together with new interfacial system designs, have considerably improved the overall efficiency of solar steam generation (SSG) for desalination and wastewater treatment.

Photovoltaic (PV) power generation is the main method in the utilization of solar energy, which uses solar cells (SCs) to directly convert solar energy into power through the PV effect. However, the application and development of SCs are still facing several difficulties, such as high cost, relatively low efficiency, and greater influence from external conditions.

One of the most promising photothermal materials (PTMs) is semiconductor-based material, which exhibits high photothermal conversion efficiencies, good chemical stability, is naturally abundant, and is widely adopted in many industries [24]. For instance, many semiconductor materials (e.g., metal oxides and sulfides) exist naturally in the form of ore ...

Optimal scheduling method of wind power-photovoltaic-photothermal ... Abstract: Aiming at the influence of randomness and fluctuation of high permeability wind power and photovoltaic output on power grid dispatching, a flexible optimization scheduling method of wind power - photovoltaic - photothermal integrated energy system was proposed. The regulation of the solar thermal ...

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Solar energy is an emerging renewable resource technology, and the industrialized applications are mainly solar photovoltaic and photothermal. With the characteristics of modularization of ...

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