

Title: All-weather solar thermal power generation

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For the first time, this work combines photothermal effect, joule thermal effect and hydrovoltaic effect, facilitating solar power conversion for reliable supply of drinking water under all ...

All-weather solar-driven desalination systems, integrating photothermal evaporators with hybrid technologies, present a sustainable, cost-effective, and high-efficiency strategy for...

Solar thermal-electric power systems collect and concentrate sunlight to produce the high temperatures needed to generate electricity. All solar thermal power systems have solar energy ...

&lt;p indent="0mm"&gt;Thermoelectric materials hold promises for direct conversion of heat into electricity, making them viable power sources for electronic devices. However, their practical applications in ...

In CSP plants, mirrors reflect and concentrate sunlight onto a focused point or line where it is collected and converted into heat, which can be stored and used to produce electricity or deliver the heat to an ...

We explore the next-generation solar-powered hybrid AWH (HAWH) by synergistically coupling DAWH and SAWH within a heat pump and evaluate its global energy-saving potential for all ...

In this study, we propose an all-day solar power generator to achieve highly efficient and continuous electricity generation by harnessing the synergistic effects of photoelectric-thermoelectric ...

Normally photovoltaic cells have enabled distributed power generation during the day, but do not work at night. Thus, efficient electricity generation technologies for a sustainable all-day ...

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