

Compared to conventional ground-mounted photovoltaic (PV) cells, floating photovoltaic (FPV) cells open new opportunities for scaling-up solar power generation, especially in highly ...

Corrosion of alloys in supercritical carbon dioxide (S-CO₂) Brayton cycle power generation systems is a critical issue. In this study, we investigated the corrosion behaviors of martensitic ...

The inadequate supply of water and energy in remote areas poses a risk to human life, which can be overcome via the use of portable solar-driven evaporation setups. However, they involve ...

Solar-driven interfacial steam generation is emerging as a green and sustainable technology for potential applications in sterilization, desalination, and water purification. Despite the ...

Solar power, also known as solar electricity, is the conversion of energy from sunlight into electricity, either directly using photovoltaics (PV) or indirectly using concentrated solar power. Solar panels use the photovoltaic effect to convert ...

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This work reports that the total capacity potential for large-scale PV in China is 108.22 TW with 150.73 PWh annual solar PV generation (implying an average capacity factor ...

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