

Solar-driven interfacial steam generation (SISG) that could directly and efficiently utilize solar energy for water distillation and purification has been believed as one of promising ...

Steam generation by eco-friendly solar energy has immense potential in terms of low-cost power generation, desalination, sanitization, and wastewater treatment. Herein, highly efficient steam ...

A low cost, highly flexible and environmentally friendly water generation method known as interfacial solar steam generation (SSG) has recently been popularized by many researchers due to the continuously ...

For the first time, we report a deployable, three-dimensional (3D) origami-based solar steam generator capable of near full utilization of solar energy. This auxetic platform is designed based on Miura-ori tessellation and ...

Rapid preparation, low cost, and reusability of the printed carbon membrane allow for photo-thermal applications such as solar steam generation and seawater desalination. Solar power, as one of renewable energy, holds ...

In this bio-inspired solar steam generation method, the floating absorbers at the air-water interface collect sunlight and convert it to thermal energy, enabling surface heating at ...

For an interfacial solar steam generation used as heating, the biggest challenge is how to achieve high steam temperature while maintaining high conversion efficiency under low-power sunlight. This requires the ...

Steam generation by eco-friendly solar energy has immense potential in terms of low-cost power generation, desalination, sanitization, and wastewater treatment. Herein, highly efficient steam generation in a bilayer solar steam generator ...

The interfacial solar steam generation and water evaporation-driven power generation are regarded as promising strategies to address energy crisis. However, it remains ...

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Interface solar steam power generation

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