Solar steam power generation device

Solar powered steam generation is an emerging area in the field of energy harvest and sustainable technologies. The nano-structured photothermal materials are able to harvest energy from the full solar spectrum ...

The 3D solar steam generator device with a nanocarbon composite of graphene oxide and carbon nanotubes being photothermal component in this work shows a very strong dependence between its solar ...

Abstract The interfacial solar steam generation and water evaporation-driven power generation are regarded as promising strategies to address energy crisis. ... Despite ...

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 ...

The all-in-one solar steam generation device renders a feasible technical support for freshwater supply in arid areas, where traditional large-scale desalination cannot be ...

Therefore, it is important to fully exploit the energy of steam for improving the solar utilization efficiency of solar-thermal-electricity co-generation device. At the same time, ...

Solar steam generation at the sterilization condition suffers from low efficiency, especially in passive solar thermal devices. We developed a stationary solar collector with a ...

Steam generation by solar energy (solar steam) has been also recently investigated in a broad variety of other applications, for instance enhanced oil recovery 12,13, ...

DL-wood with CNTs has the following advantages: (1) it is stable, available, and easy to extend; (2) it does not pollute the environment and will not cause discoloration or dregs when used; ...

The all-in-one solar steam generation device renders a feasible technical support for freshwater supply in arid areas, where traditional large-scale desalination cannot be applied. In this work ...

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