

Porous appearance of solar container industrial water machine

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Solar-driven interfacial water evaporation has emerged as a promising strategy to address freshwater scarcity. Several solar evaporators have been explored for photothermal water ...

The relative influence of the capillary, Marangoni, and hydrophobic forces in mediating the evaporation of water from carbon foam based porous media, in response to incident solar radiation, are ...

Traditional solar thermal distillation devices consist of a water container with a black bottom and a transparent cover typically. The dark bottom absorbs solar radiation, warming the ...

Five researchers affiliated with Nagoya University have been named in Clarivate's Highly Cited Researchers List for 2025. This list recognizes researchers who demonstrate significant and ...

The modified system features a double-pass single-duct air solar collector with steel wool-PCM and a sheet-tube water thermal collector integrated with paraffin wax-PCM. Experimental ...

Unlike traditional porous hydrogel structures that have only a single water transport path (Fig. 1a), SPP provides an interconnected multi-pore-scale micro-network and aligned pore ...

The Solarcontainer represents a grid-independent solution as a mobile solar plant. Especially in remote areas it can guarantee a stable energy supply or support or almost replace a public grid with strong ...

The solar-powered graphene/alginate hydrogel-based clean water extractor shows super resistance to the transport of complex contaminants and has an ultra-antifouling capacity.

Here, we demonstrate an interconnected porous fabric-based scalable evaporator with asymmetric wetting properties fabricated by industrialized weaving technique, namely asymmetric ...

Our framework is adaptable to diverse porous structures and operational conditions, making it a versatile tool for screening porous structures for solar thermochemical applications. This ...

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Astronomers have uncovered a previously unknown, extreme kind of star factory by taking the temperature of a distant galaxy using the ALMA telescope. The galaxy is glowing intensely ...

Polyurethane (PU) is insoluble in water but exhibits excellent hydrophilicity, making it suitable for solar-driven water evaporation applications in hydrogel form. In this study, porous PU ...

The porous structure of hydrogels facilitates water replenishment through interactions with water molecules, creating a rich water/air interface and forming an ultra-thin hydrophilic liquid film ...

Surface texturing for suppressing the reflection losses is the first and foremost step in the solar cell fabrication process. Over the years, multi-crystalline silicon (mc-Si) wafer solar cells ...



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