

Title: 3d water evaporator

Generated on: 2026-05-23 05:06:54

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Herein, we fabricate a cup evaporator using 3D printing to achieve stable and efficient water evaporation by aligned mass transfer grooves. The cup design of evaporator can efficiently ...

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We report an enabling dynamic 3D windmill evaporator that achieves continuous water desalination, localized point salt crystallization and harvesting.

Solar-driven water evaporation represents an environmentally benign method of water purification/desalination. However, the efficiency is limited by increased salt concentration and...

Inspired by the mangrove leaf, we propose a photothermal 3D polydopamine and polypyrrole polymerized spacer fabric (PPSF)-based upward hanging model evaporation ...

This review summarizes recent advances in 3D evaporators, focusing on rational design, fabrication and energy nexus of 3D evaporators, and the derivative functions for improving solar ...

Here, we develop a 3D-printed concave-shaped solar evaporator and a floating freshwater collection setup, that achieve nearly 100% photothermal evaporation efficiency with a rate ...

When needed, due to the shape-memory effect, the 3D structure can be rapidly restored by swelling the compressed film in water, resulting in an efficient 3D solar evaporator.

To achieve the purpose, a teardrop-shaped 3D evaporator with multiple biomimetic water supply structures is developed. The teardrop-shaped configuration not only greatly increases the ...

Solar interfacial evaporation offers a sustainable method to extract fresh water from seawater, but is often



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constrained by salt accumulation. A 3D-printed hemispherical solar evaporator ...

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