

Title: Solar water evaporation solutions

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Her research focuses on solar thermal materials and solar water technologies, with specific interests in solar-driven clean water production, wastewater treatment, and resource recovery.

Solar (thermal) evaporation is an interdisciplinary research problem with potential broad impact in energy and sustainability spaces. Classically intended for desalination, solar steam-generation applications ...

Advances in the recent development of solar-driven water evaporation have been reviewed. The way to improve solar-water conversion efficiency is highlighted. The scalable applications of solar-driven water ...

In the current review, we discuss the major factors affecting evaporator efficiency and long-term performance, including selection of photothermal materials, promotion of evaporation efficiency, and solutions to the ...

The recently developed interfacial solar evaporation (ISE) has brought traditional solar evaporation technologies into a new era.

Understanding evaporation examples from real-world water systems helps illustrate the scale of this challenge and why innovative solutions like floating solar technology are becoming critical tools for water ...

Salt-Tolerant Bamboo-Inspired Solar Evaporators for Efficient Desalination ? A new study reports a broom-like bamboo-inspired solar evaporator that achieves high evaporation efficiency and ...

Evaporation systems with bionic structures such as roots, stems, leaves, and even animal tissues can not only promote water transport inside the absorbers but also accelerate the solar water evaporation ...

An overview of the evolution of solar evaporation technologies is provided followed by a comprehensive discussion of the multiscale physicochemical principle processes involving energy conversion ...

This paper discusses the development and testing of a bilayer-structured solar evaporator (SDWE) with a



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dynamic water-thermal controlling system that autonomously shifts between efficient thin water evaporation

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