Efficient solar still

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Solar stills (SS) present an eco-friendly desalination method, utilizing solar energy for freshwater production. This comprehensive review critically ...

Abstract In double-slope solar stills (DSS), a significant amount of solar energy is wasted as heat and reducing the system freshwater generation efficiency.

Solar is still affordable, eco-friendly, and considered an effective method amongst other conventional distillation techniques. Solar still is very effective, especially for supplying fresh water for islanders.

For practical and efficient use, solar stills should ideally operate within the 35 °C-45 °C ambient temperature range. This range ensures maximum productivity by taking advantage of ...

This review presents a comprehensive analysis of recent advancements in solar still technologies, with a particular emphasis on innovative materials, thermal management strategies, ...

The purpose of this review article is to highlight the evolution and advances in solar still technology, with a particular emphasis on design alterations that aim to improve efficiency.

This comprehensive review investigates the effect of various solar still designs, such as conventional, stepped, multi-effect, and active solar stills, on water production efficiency.

Solar stills provide a sustainable solution by using sunlight to purify contaminated or saline water without electricity or complex infrastructure. Optimizing solar still design improves ...

This study investigates the integration of flint stones as a low-cost and effective thermal energy storage (TES) medium to enhance the productivity and efficiency of conical solar stills.

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