

European Solar Energy Storage

Solar evaporation energy storage



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Solar transpiration-powered lithium extraction and storage



Inspired by nature's ability to selectively extract species in transpiration, we report a solar transpiration-powered lithium extraction and storage (STLES) device that can extract and store lithium from brines using natural sunlight.

Solar-driven interfacial evaporation technologies for food, energy ...

In this Review, we assess the potential of solar-driven interfacial evaporation technologies in food, energy and clean-water production, in wastewater treatment, and in resource recovery.



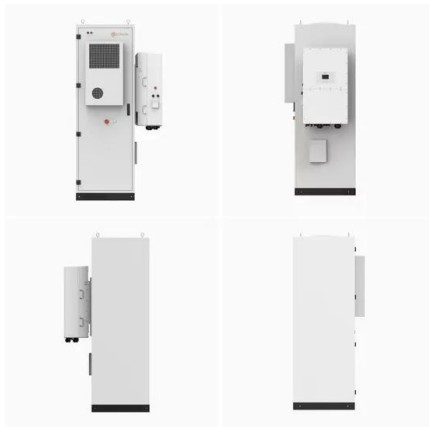
Harvesting solar energy with a Ni-MOF-based evaporator for ...

Harvesting solar energy for efficient photothermal conversion and steam generation over solar evaporators is particularly significant in the context of comprehensive solar utilization toward solving the global shortage of fresh water.

Development of a phase-change energy storage gel via

grafting ...

It uses a grafting approach to combine heat absorption and energy storage functions, to enhance interfacial evaporation and enable sustainable seawater desalination.



Interfacial solar evaporator synergistic phase change energy storage

Solar-driven interface water evaporation has been demonstrated to be one of the most promising technologies for alleviating global water pollution and water shortage.

Advancing Efficiency in Solar-Driven Interfacial ...

Solar-driven interfacial evaporation (SDIE) has emerged as a promising technology for addressing global water scarcity by utilizing solar-thermal conversion and evaporation at the air/material/water interface.



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All-weather radiative evaporation enabled by solar powered ...

The developed radiative evaporator, combining light absorption, heat storage, and evaporation, demonstrates effective energy recovery and reuse, ensuring continuous and efficient water evaporation under variable solar conditions.



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