

Osmotic power has emerged as one of the promising candidates for clean and renewable energy. However, the advancement of present osmotic power-harvesting ...

DOI: 10.1016/j.cej.2024.152599 Corpus ID: 270216187; An engineered superdurable cellulosic radiative cooling - Power generation wearable metafabric @article{Cai2024AnES, title={An ...

Rui Sang 1,5, Zhihong Wei 2,5, Yuya Hu 1,5, Elisabetta Alberico 1,3, Duo Wei 1, Xinxin Tian 2, Pavel Ryabchuk 1, Anke Spannenberg 1, Rauf Razzaq 1, Ralf Jackstell 1, Jonas Massa 4, ...

The long-running desalination-power generation-cultivation trinity system maintained an evaporation efficiency of  $\sim 1.42 \text{ kg m}^{-2} \text{ h}^{-1}$ , achieving a peak power output of  $\sim 0.25 \text{ W cm}^{-2}$  ...

In addition, a comparison is made between solar thermal power plants and PV power generation plants. Based on published studies, PV-based systems are more suitable for small-scale power ...

The charging and discharging time in the hybrid generator group can be thought of as a superposition of the charging and discharging time by TENG and solar cells alone. The ...

Dense-array concentrating photovoltaic (DA-CPV) systems suffer from power generation limits due to extreme operation conditions.

The traditional photovoltaic (PV) forecasting method depends on sufficient historical data (PV power station historical power generation data and numerical weather ...

In the solar-powered vapor generation (SVG) system, also known as solar steam generation or solar-driven interfacial evaporation, maximum proportion of the solar energy ...

DOI: 10.1002/adma.202212100 Corpus ID: 259314258; Water Activation in Solar-Powered Vapor Generation @article{Wei2023WaterAI, title={Water Activation in ...

The 3D cup-shaped solar evaporator achieves near 100% energy efficiency in solar steam generation, because its wall can efficiently reabsorb the diffuse reflectance and ...

@article{Liu2022BiomassbasedPC, title={Biomass-based phase change material gels demonstrating solar-thermal conversion and thermal energy storage for thermoelectric ...

T1 - Optimal design and techno-economic analysis of a hybrid solar-wind power generation system. AU -

Yang, Hongxing. AU - Wei, Zhou. AU - Chengzhi, Lou. PY - 2009/1/1. Y1 - ...

Selected hydrogen energy systems a, Energy carriers based on CO<sub>2</sub> (the values in tonnes represent annual output from industry and nature emission). b, Using MF as a ...

China has experienced rapid social and economic development in the past 40 years. However, excessive consumption of fossil fuel energy has caused an energy shortage ...

TY - JOUR. T1 - A novel optimization sizing model for hybrid solar-wind power generation system. AU - Yang, Hongxing. AU - Lu, Lin. AU - Zhou, Wei

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