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Solar-driven interfacial evaporation: materials design and device assembly

Keywords: Solar-driven interfacial evaporation, materials design, device assembly, clean water production, photothermal materials, water desalination INTRODUCTION

Synergistic effect of well-defined dual sites boosting the ...

Herein, we construct a novel electrocatalyst with Fe-Co dual sites embedded in N-doped carbon nanotubes ((Fe,Co)/CNT), which exhibits inimitable advantages towards ...



????????????????

Xia Liu, Xiaohong Wang*, Cardiomyocytes driven piezoelectric nanofiber generator with anisotropic enhancement, 2016 IEEE 29th International Conference on Micro Electro ...

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Universität Bern, Bern**

Shi-Xia Liu currently works at the Department of Chemistry and Biochemistry, Universität Bern. She does research in Materials Chemistry, Molecular Electronics, Organic Synthesis and ...



Spatially isolating salt crystallisation from water evaporation for

As a low-cost green technology, solar steam generation using nanostructured photothermal materials has been drawing increasing attention in various applications, e.g. ...



Energy Density in Ionic Thermoelectric Generators by Prussian ...

With the escalation of the energy crisis and the increasingly serious problem of environmental pollution, green and nonpolluting new energy sources are attracting increasing ...



Solar Vapor Generation Enabled by Nanoparticles , ACS Nano

Solar illumination of broadly absorbing metal or carbon nanoparticles dispersed in a liquid produces vapor without the requirement of heating the fluid volume. When particles ...





A reconfigurable and magnetically responsive assembly for dynamic solar

By contrast, for Fe₃O₄ @G assembly, water was rapidly absorbed and transported to the tip of the CA assembly within 30 s, and the water transport rate is up to 167 ...



(PDF) Modular enzyme assembly for enhanced cascade

Modular enzyme assembly for enhanced cascade biocatalysis and metabolic flux. September 2019; Nature Communications 10(1) Wilson Chun Yu Lau 3, Zixin Deng ...

[Energy & Environmental Science](#)

evaporation for continuous solar steam generation and salt harvesting+ Yun Xia, a Qinfu Hou, a Hasan Jubaer, a Yang Li, a Yuan Kang, a Shi Yuan, a Huiyuan Liu, a Meng Wai Woo, a Lian ...



Solar-driven interfacial evaporation: materials design ...

Solar-driven interfacial evaporation (SIE) is an emerging research topic that is gaining attention due to its potential in addressing global water scarcity issues.



Interfacial solar heating assisted liquid sorbent atmospheric water

It is shown that interfacial solar heating based on a salt-resistant GO-based aerogel can enable high concentration liquid sorbent (CaCl₂ 50 wt% solution) based ...



A Novel Generator of Ultra-wideband Pulse , Semantic Scholar

A novel Ultra-Wideband (UWB) picoseconds pulse generator is described in this paper. The basis of the generator is an avalanche transistor and a unique pulse forming ...

Sunflower-Stalk-Based Solar-Driven Evaporator with a Confined ...

@article{Liu2021SunflowerStalkBasedSE, title={Sunflower-Stalk-Based Solar-Driven Evaporator with a Confined 2D Water Channel and an Enclosed Thermal-Insulating ...



Balanced pulse generator for ultra-wideband radar application

A balanced pulse generator with high voltage amplitude and pulse width in the picoseconds region is described. It can operate well at the pulse repetition frequency (PRF) up ...



Self-rotating Solar Evaporator for Continuous and Efficient

Recent advances in multistage solar distillation are promising for the sustainable supply of freshwater. However, significant performance degradation due to salt accumulation ...



51.2V 300AH

A 24-hour thermoelectric generator simultaneous using solar ...

The cost of the entire components is less than \$30. Xia and his team further optimized this generator using a simpler structure [27]. A single layer of SiO₂ films was used ...

Solar-energy-facilitated CdSxSe1-x quantum dot bio-assembly in

Solar-energy-facilitated CdS_xSe_{1-x} quantum dots with an elongated fluorescence lifetime and fast synthesis rate. In Create Free Account. DOI: ...



Thermoelectric Generator Using Space Cold Source.

A new kind of thermoelectric generator, which can use the temperature difference caused by passive cooling via the atmospheric window to generate electric energy ...



Multiple textile triboelectric nanogenerators based on UV ...

In addition, the PE/UV/OM-CF TENG has strong near-infrared reflectivity in the solar spectrum range from 400 to 2500 nm, which allow it to reflect most of the sunlight, thus ...



[Shi-Xia Liu \(0000-0001-6104-4320\)](#)

Shi-Xia Liu received her PhD in Chemistry in 1998 from Lanzhou University (China). As an Alexander-von-Humboldt Research Fellow, she was at Siegen University (Germany) from ...



Solar-driven interfacial evaporation: materials design and device assembly

Solar-driven interfacial evaporation (SIE) is an emerging research topic that is gaining attention due to its potential in addressing global water scarcity issues. This review ...



[Multiscale Construction of Bifunctional ...](#)

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Modular enzyme assembly for enhanced cascade biocatalysis ...

Modular enzyme assembly for enhanced cascade biocatalysis and metabolic flux Nat Commun. 2019 Sep 18;10(1):4248. doi: 10.1038/s41467-019-12247-w. Authors Wei ...



Sunflower-Stalk-Based Solar-Driven Evaporator with a

Request PDF , On Nov 15, 2021, Fangqingxin Liu and others published Sunflower-Stalk-Based Solar-Driven Evaporator with a Confined 2D Water Channel and an Enclosed Thermal ...

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