

Title: Da Li Ji Solar Power Generation

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Herein, we present a groundbreaking integration concept that combines a floating solar panel with a five-stage membrane distillation (MD) device, enabling simultaneous clean water and ...

Li Ji Professor, School of Microelectronics, Fudan University Verified email at fudan .cn Solid state devices Renewable Energy

Li Ji Affiliation Harbin Institute of Technology Shenzhen Graduate School, Shenzhen, China Publication Topics

A solar-powered water-electricity generator is successfully constructed via rational integration of a semitransparent solar cell and an interfacial steam generator based on a monolithic ...

Here we present an integrated desalination-power generation-cultivation trinity system. All from solar energy, we could obtain fresh water, electric power and crop cultivation media.

Flexible perovskite-based single-junction and tandem solar cells have achieved power conversion efficiencies (PCEs) exceeding 25% and 29%, respectively...

This study demonstrates the application of photothermal organic-small-molecules in water evaporation and power generation, therefore offering a valuable prospect of their utilization in solar...

We achieve 50 mW/m² nighttime power generation with a clear night sky, with an open-circuit voltage of 100 mV, which is orders of magnitude higher as compared with previous ...

Based on an analysis of the 24 solar terms, this work investigated their impact on PV power generation in China and established a correlation coefficient between PV output and solar terms.

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