

The high efficiency all-small-molecule organic solar cells (OSCs) normally require optimized morphology in their bulk heterojunction active layers. Herein, a small-molecule donor is designed and...

This paper uses historical power information of photovoltaic power plants and cloud image data, combined with machine learning methods, to provide ultra-short-term predictions of the power ...

The results of this study indicated that China, as one of the fast-growing countries in the global south, shows outstanding potential for solar PV power station installation and ...

Solar panels on a rooftop in New York City Community solar farm in the town of Wheatland, Wisconsin [1]. Solar power includes solar farms as well as local distributed generation, mostly on rooftops and increasingly from community ...

Ruimin Ma's 20 research works with 464 citations and 4,762 reads, including: Machine Learning-Assisted Exploration of Thermally Conductive Polymers Based on High-Throughput Molecular ...

How long will a solar generator power a refrigerator? With a solar generator with a high enough capacity, you can definitely power larger devices like refrigerators. Refrigerators generally are 400-800W. Larger ...

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 and ...

This paper proposes a model called X-LSTM-EO, which integrates explainable artificial intelligence (XAI), long short-term memory (LSTM), and equilibrium optimizer (EO) to reliably forecast solar power ...

All-small-molecule organic solar cells with over 14% efficiency by optimizing hierarchical morphologies Ruimin Zhou 1,2,3,4,7, Zhaoyan Jiang 1,2,7, Chen Yang 1,2, ... the power ...

A solar generator that weighs 10-20 pounds is ideal if you need a good amount of power on the go. At this weight, you'll probably be able to find one with a battery between about 400-800Wh. If you're looking for a large ...



Ruimin Solar Power Generation

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