Ouyang Cong Solar Power Generation

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Zhongliang Ouyang The University of Alabama Verified email at crimson.ua Renewable energy Semiconductor devices Applied Physics Material Science Electrical Engineering

In order to forecast future electricity generation and serve as a reference for plant operation, a power prediction strategy using neural networks is developed.

This paper describes a freestanding hybrid film composed of a conductive metal-organic framework layered on cellulose nanofibres which enables efficient solar power generation.

In 2015, UN member states agreed to 17 global Sustainable Development Goals (SDGs) to end poverty, protect the planet and ensure prosperity for all. This person"s work contributes towards the following ...

Abstract: In spite of the fact that the solar power tower system is considered as one of the most valuable power generation facilities, it still faces challenges such as insufficient utilization of the solar salt ...

Performance mapping of silicon-based solar cell for efficient power generation and thermal utilization: Effect of cell encapsulation, temperature coefficient, and reference efficiency

This study proposes a novel prediction approach combining improved K-means clustering with Time Convolutional Networks, a Bi-directional Gated Recurrent Unit (BiGRU), and an ...

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