Xu Butou Solar Power Generation

Solar energy fits well with the increasing demand for clean sustainable energy. This paper describes a freestanding hybrid film composed of a conductive metal-organic framework layered on cellulose ...

These models can estimate the power output of solar panels by directly learning the complex relationships between variables such as solar irradiance and wind speed.

Solar and wind generation data from on-site sources are beneficial for the development of data-driven forecasting models. In this paper, an open dataset consisting of data collected from on-site ...

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Here we use state-of-the-art Earth system model simulations to investigate how large photovoltaic solar farms in the Sahara Desert could impact the global cloud cover and solar ...

Concentrated solar power plants (CSPs) are gaining momentum due to their potential of power gen-eration throughout the day for base load applications in the desert regions with extremely...

Accurate solar and wind generation forecasting along with high renewable energy penetration in power grids throughout the world are crucial to the days-ahead power scheduling of energy systems.

It presented a solar PV power generation forecasting application using XAI tools, specifically the XGBoost algorithm and ELI5 XAI tool, for efficient, simple, and fast forecasting with detailed feature ...

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