

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 ...

Semantic Scholar extracted view of "A novel hybrid biomass-solar driven triple combined power cycle integrated with hydrogen production: Multi-objective optimization based ...

[29-31] Photothermal conversion of solar energy refer that solar energy is first converted into heat and then heat energy is utilized to achieve the desired destinations, [15, 16, 28, 31-34] such as water purification, ...

A prototype that couples the film with thermoelectric power generation produces an extraordinary output voltage of 74 V within an area of 0.01 m² exposed to sunshine. Further optimization ...

CaO/CaCO₃-based sorbent can be used as a thermochemical energy storage (TCES) material in concentrated solar power (CSP) systems due to its ability to convert thermal energy to ...

Currently, the market for solar cells can be divided into large module installations for terrestrial power generation and smaller modules to power portable electronics 13. DSCs can be used in both ...

The shortage of energy and the demand for energy-saving and emission reduction have urged the power grids of countries around the world to actively develop low-carbon power technologies (Nazir et al., 2020a).With the ...

DOI: 10.1016/j.solener.2024.112315 Corpus ID: 267013599; A day-night solar thermoelectric generator enabled by phase change material and forced water cooling @article{Cao2024ADS, ...

The solar chimney power plant concept was originally proposed in 1903 by Isidoro Cabanyes [1] 1931, a description of a solar chimney power plant was presented by Günther [2].The basic ...

Solar-driven interfacial evaporation (SDIE) has played a pivotal role in optimizing water-energy utilization, reducing conventional power costs, and mitigating environmental impacts. The ...

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