

A hybrid wind-solar system is proposed, leveraging mathematical modelling and simulation, with FPV system inheriting dynamic states from FOWT and employing a shared ...

@article{Zhang2020EnergyAE, title={Energy and exergy analysis of a new cogeneration system based on an organic Rankine cycle and absorption heat pump in the coal ...

With the largest installed capacity of wind power and solar PV in the world, China is experiencing an approximately 10% curtailment in major northern provinces. The combined ...

AU - Liu, Yifeng. AU - Cao, Yang. PY - 2022. Y1 - 2022. N2 - With the largest installed capacity of wind power and solar PV in the world, China is experiencing an approximately 10% ...

A hybrid wind speed prediction method considering the fluctuation, randomness and nonlinear of wind, which can be applied to short-term deterministic and interval prediction and experimental ...

The next generation of concentrated solar power plants will need to operate at higher temperatures (>700°C) so that better efficiencies and lower costs can be achieved. One such design that may ...

@article{Cui2021DonorAcceptorTypeOS, title={Donor-Acceptor-Type Organic-Small-Molecule-Based Solar-Energy-Absorbing Material for Highly Efficient Water ...

Solar-aided coal-fired power generation is a promising technique to reduce cost and enhance the efficiency of concentrated solar power. Operation optimization is important ...

Harvesting energy from the environment offers the promise of clean power for self-sustained systems<sup>1,2</sup>. Known technologies--such as solar cells, thermoelectric devices ...

Current artificial photosynthesis (APS) systems are promising for the storage of solar energy via transportable and storable fuels, but the anodic half-reaction of water ...

DOI: 10.1016/J.RSER.2015.05.005 Corpus ID: 109452410; Overview of wind power generation in China: Status and development @article{Feng2015OverviewOW, title={Overview of wind ...

Semiconductor thermoelectric power generation is a new type of energy-saving and environment-friendly power generation technology, which directly converts heat energy ...

Bo Wang, Wenzong Liu, Yifeng Zhang, Aijie Wang PII: S0043-1354(20)30775-2 ... generation between

electrode microbes in the integrated biochemical anaerobic ... reactors named Group ...

Solar power generation is a sustainable and clean source of energy that has gained significant attention in recent years due to its potential to reduce greenhouse gas ...

Y. Wang et al. authoritative statistics, PV defects can reduce the actual service life of PV modules by at least 10% [1-2]. Therefore, it is necessary to detect the presence of defects in an effective

Photothermal materials based on organic small molecules have the characteristics of structural diversity and easy modification for solar-driven water evaporation ...

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