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Following modern approaches to distributed power supply and generation, the requirements for the solutions of heat and mass transfer problems have been additionally shifted towards the smaller scales, lower temperature applications, and utilization of as-of-yet unused power streams, compared to the large-scale centralized energy production, monolithic ...

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This work presents and discusses the application of power electronics for the integration of several distributed generation sources, as well as those related to it, the microgrids and the smart ...

This Special Issue is designed to cover technical issues in advanced solar photovoltaic power generation, power generation forecasting, integrated energy applications, impact on sustainable development, and use of big data in the energy sector. The guest editorial team is soliciting original research papers addressing, but not limited to, the ...

These include advanced solar photovoltaics (such as perovskite solar cells and bifacial modules) (Song et al. 2022), next-generation wind turbines (such as vertical-axis and airborne wind energy systems) (Meghana et al. ...

Real-Time Solar Power Generation Scheduling for Maintenance and Suboptimally Performing Equipment Using Demand Response Unified with Model Predictive Control June 2024 Energies 17(13):3212

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