Special Issue

Progress and Challenges in Solar Photovoltaic Materials and Intelligent Control

Message from the Guest Editor

This SI focuses on topics including, but not limited to, the following:

- Solar PV materials, including new and further developed solutions, modeling, and simulations;
- Solar PV cells and modules design;
- Power electronics topology for solar energy;
- Solar PV solutions for off-grid and grid-connected operation;
- Novel optimization and control techniques;
- Modeling, simulation, and stability analysis of PV systems;
- Schemes for increased Solar PV penetration (e.g., coordination with storage);
- Performance analysis of Solar PV modules;
- Economic dispatch for Solar energy systems;
- Renewable energy policy and incentive studies for increased Solar PV penetration;
- New concept of "PV+" to optimize the energy structure of PV generation and consumption.

Guest Editor

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Message from the Editor-in-Chief

Energies is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

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