Special Issue

Recent Advances in Solar Cells and Photovoltaic Systems

Message from the Guest Editors

The growing global energy demand has led to increased greenhouse gas emissions and inevitable global warming. To address these challenges, the world has started to implement decarbonization and sustainability goals that require an increase in the use of renewable energy sources. This Special Issue aims to present and disseminate the most recent advances in the development of solar cells and of photovoltaic systems. Topics of interest include but are not limited to:

- Solar cell materials and technologies;
- Solar cell fabrication, characterization, and simulation;
- Photovoltaic system design;
- Monitoring of photovoltaic systems;
- Sun-tracking technologies;
- Solar panel fault detection;
- Solar panel degradation;
- Estimation of maximum power point;
- Storage systems;
- Hybrid thermal and photovoltaic systems.

Guest Editors

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Deadline for manuscript submissions

closed (19 August 2024)

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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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