

Special Issue

Advanced Materials and Technologies for Solar Cells and Semiconductor Devices

Message from the Guest Editor

The is inviting contributions for a Special Issue on the topic area of “Advanced Materials and Technologies for Solar Cells and Semiconductor Devices”. For decades, researchers have reported intensively on advances and achievements in photovoltaic and semiconductor devices. Efforts have been concentrated to date on developing low-cost, high-efficiency devices for market competitiveness. The goals necessitate that scientists continually discover advanced materials and technologies. This Special Issue addresses the latest advances and/or innovations in semiconductor materials and technologies such as solar cells, transistors, diodes, sensors, etc. Original research or review papers based on both modeling and experimental studies are encouraged. Topics of interest include but are not limited to:

- Silicon-based solar cells;
- Multijunction photovoltaic devices;
- Thin film transistors;
- Thin film solar cells;
- Hybrid solar cells;
- Technologies: passivating contact, carrier selective contact, interdigitated back contact, and so on;
- Antireflection coatings and transparent conducting oxides.

Guest Editor

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Deadline for manuscript submissions

closed (30 September 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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