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Advanced Materials and Technologies for Solar Cells and Semiconductor Devices

Guest Editor:

Prof. Dr. Pham Duy Phong
Department of Electrical and Computer Engineering, Sungkyunkwan University, Suwon 16419, Republic of Korea

Deadline for manuscript submissions:
closed (30 September 2024)

Message from the Guest Editor

The Guest Editor 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.

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Editor-in-Chief

Prof. Dr. Enrico Sciubba
Department of Mechanical and Industrial Engineering, University Niccolò Cusano, 00166 Roma, Italy

Message from the Editor-in-Chief

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Energies Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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