Special Issue

Power Semiconductor Devices: Optimization, Characterization and Applications

Message from the Guest Editor

Power semiconductor devices are fundamental to modern power converters, and their high performance enables power systems to achieve greater efficiency. In recent years, there have been numerous emerging techniques for power semiconductor devices, as well as related application issues. Additionally, package & module design and power integration circuits are also intriguing topics of interest for researchers in this field. This Special Issue will deal with optimization, characterization, and related application issues of power semiconductor devices. Topics of interest for publication include, but are not limited to:

- High Voltage Silicon Power Devices;
- Medium and Low Voltage Silicon Power Devices;
- Lateral GaN Devices and Reliability Issues;
- Vertical GaN Devices;
- Novel Structure of SiC Devices;
- Ultra-High Voltage WBG Power Devices;
- Powe Module Design & Development;
- Reliability and Health Monitoring for Power Device and Modules;
- Circuits and ICs for Drivers & Device Protection.

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Deadline for manuscript submissions

closed (31 August 2024)

Energies

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Impact Factor 3.2
CiteScore 7.3

mdpi.com/si/180339

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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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