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Advanced Materials/Devices for Power Electronics

Guest Editor:

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Deadline for manuscript
submissions:

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Message from the Guest Editor

The integration of renewable energies and the need for better energy efficiency have led to the increased electrification. This requires more and more power converters with high performance (efficiency, compactness, reliability and ability to withstand harsh environments). The performance requires high-performance materials (electrical and thermal conductors, insulators, magnetic dielectrics) for the realization of passive components (capacitors and inductors, etc.) or the integration of chips into power integrated circuits or hybrid module performance and reliable power.

Prospective authors are invited to submit original contributions, survey papers or tutorials for review and potential publication in this Special Issue. Topics of interest include, but are not limited to:

- New power devices (Si, SiC, GaN, Diamond, etc.) for advanced operation.
- Characterization and modeling of new power devices.
- Power devices in their environment (gate drive, packaging, thermal management, etc.).
- New materials (conductor, thermal management, insulator, dielectric, magnetic, etc.) for advanced power electronics.
- Material modeling and characterization for advanced power electronics.



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Special Issue



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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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