

Special Issue

Power Electronics Applications in Microgrid and Renewable Energy Systems

Message from the Guest Editors

The topics of interest for this Special Issue are as follows. We invite contributions on a wide range of topics related to the application of power electronics in microgrids and renewable energy systems, including, but not limited to: **Advanced Inverters and Converters:** Novel designs, control algorithms, and topologies for grid-tied and off-grid inverters and converters. **Energy Storage Systems:** Integration of energy storage technologies (e.g., batteries, supercapacitors, hydrogen) with power electronics in microgrid systems. **Grid Integration:** Strategies and technologies for the seamless integration of renewable energy sources into the grid, including grid-forming inverters. **Microgrid Control and Management:** Advanced control methods, optimization techniques, and real-time management of microgrid systems. **Harmonics and Power Quality:** Mitigation of harmonics and improvement in power quality in microgrids and renewable energy systems. We look forward to receiving your valuable contributions and advancing the field of power electronics in microgrid and renewable energy systems.

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Deadline for manuscript submissions

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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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