Special Issue

Renewable Energy Source Dominated Virtual Power Plant

Message from the Guest Editors

SiC power devices have enjoyed rapid development in the past decade. Because of the high voltage rating, fast switching speed, and low switching loss, the SiC power devices offer great potential to change the landscape of the power electronics industry, driving higher-efficiency, higher-power-density, and higher-quality power conversion. To maximize the performance of power converter systems with SiC power devices, innovative technologies are expected from both academia and industry. The topics of interest include, but are not limited to:

- Manufacture of SiC power devices;
- Test, characterization, and modelling of SiC power devices;
- Health monitoring and fault diagnosis for SiC power devices;
- Packaging technologies for SiC power devices;
- Series and paralleling technologies for SiC modules;
- High-performance gate driver and gate driver power supply for SiC power devices;
- High-performance SiC power converter;
- EMI solutions to SiC power converter systems;
- Cooling and insulation design for SiC power converter systems;
- Reliability of SiC power devices and SiC power converter systems.

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Electronics is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guestedited by leading experts in selected topics of interest.

Editor-in-Chief

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