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Wide Bandgap Power Integrated Circuits and Sensors

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Deadline for manuscript submissions:

closed (20 August 2023)

Message from the Guest Editors

This Special Issue aims to collect original and review articles on wide bandgap (WBG) power-integrated circuits (IC) and sensors in the ongoing transition from discrete power and sensor devices to fully integrated power circuits.

Wide bandgap power integrated circuits (IC) enable highly efficient, compact and low-cost power conversion in areas such as electromobility, renewable-energy conversion, chargers, robotics, etc.

Potential topics include (but are not limited to):

- WBG power devices and ICs and sensors, as well as sensor integration.
- SiC, GaN, Ga2O3, AlN, diamond, etc. (WBG) power ICs and devices.
- Internal/external sensors and readout circuits for/in power ICs.
- Interfaces between power ICs and sensors.
- Sensing of electrical (current, voltage, power, resistance, etc.) thermal (temperature, heat flow, calorimetric, power loss,) optical, environmental and other quantities.
- Analog, mixed-signal, digital, smart and Al-based approaches.
- Particularities from the power IC or sensor technology.
- Extreme conditions and designs (high temperature, fast switching, high slew-rate, high-density, etc.).













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Message from the Editor-in-Chief

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