

Special Issue

Wide Bandgap Power Integrated Circuits and Sensors

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 AI-based approaches.
- Particularities from the power IC or sensor technology.
- Extreme conditions and designs (high temperature, fast switching, high slew-rate, high-density, etc.).

Guest Editors

Dr. Stefan Moench

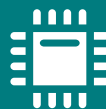
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Message from the Editor-in-Chief

Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. Sensors organizes Special Issues devoted to specific sensing areas and applications each year.

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