

Special Issue

Advances in Semiconductor Sensor Applications

Message from the Guest Editor

In today's IoT-driven society, sensors occupy a vital spot in all sectors of activity, ensuring the effective assessment of critical operational characteristics. The focus of this Special Issue is on concrete sensor applications, such as the following: industrial (vital parameter monitoring for process control), environmental (greenhouse gas emissions and air quality monitoring), educational (semiconductor sensor platforms and test benches for sustainable STEM education), and automotive (energy monitoring for efficient power conversion). Papers detailing a wide array of sensor types, specific to these applications, are encouraged. Points of special interest include wide-bandgap semiconductor sensors, materials and coatings for electrochemical sensors, innovative sensing element structures (porous Si/SiC and Si/SiC nanowires), read-out circuits and sensor signal processing techniques. Articles pertaining to analytical/numeric device modeling and sensing mechanism analysis are also welcome. Investigations and predictions on operation limits, characterization and cutting-edge computer-aided modeling for such innovative sensor applications are strongly encouraged.

Guest Editor

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About the Journal

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.

Editor-in-Chief

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