Special Issue

Advanced Nanomaterials for Next-Generation Gas Sensors

Message from the Guest Editor

This Special Issue focuses on recent progress in advanced nanomaterials for gas sensing applications. As the demand for high-performance gas sensors continues to increase in environmental monitoring, industrial safety, healthcare diagnostics, and smart electronics, material innovation plays a vital role in enhancing sensor capabilities. This Special Issue welcomes original research and review articles on the synthesis and characterization of advanced nanomaterials for gas sensing. Topics of interest include sensing mechanism studies, data-driven signal processing, and strategies for practical sensor integration. The aim is to provide a comprehensive overview of current developments and to promote future directions in nanomaterial-based gas sensing technologies. Topics may include:

- Gas sensors
- Nanomaterials
- Selectivity

Guest Editor

Dr. Seong-Yong Jeong
Division of Advanced Materials Engineering, Kongju National University, Cheonan-si, Republic of Korea

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Sensors
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
sensors@mdpi.com

mdpi.com/journal/sensors

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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.

Editor-in-Chief

Prof. Dr. Vittorio M. N. Passaro
Dipartimento di Ingegneria Elettrica e dell'Informazione (Department of Electrical and Information Engineering), Politecnico di Bari, Via Edoardo Orabona n. 4, 70125 Bari, Italy

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