

Special Issue

Recent Advances in Gas Sensors

Message from the Guest Editors

Gas sensors are at the core of a wide range of applications, from environmental monitoring and industrial safety to healthcare and smart cities. This Special Issue aims to showcase the latest breakthroughs in gas sensing technologies, materials, and integration strategies. We welcome contributions that highlight novel sensing mechanisms, advanced materials (e.g., nanostructures, MOFs, and 2D materials), data-driven approaches (e.g., AI-assisted calibration or selectivity), sensor miniaturization, and system-level innovations. Both fundamental studies and applied research are encouraged, especially those addressing selectivity, stability, and real-world deployment challenges.

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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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