

Special Issue

Recent Advances in Smart Gas Sensing Technologies

Message from the Guest Editors

Nowadays, there is an increasing demand for cheap, rapid and reliable analysis of gas molecules and volatile organic compounds (VOCs) in various fields. To date, the gold standard for gas analysis has been spectroscopy-based techniques. Nevertheless, sensor-based gas sensing technologies have emerged as promising alternatives, in particular for on-site analysis and in situ monitoring, thanks to their reduced cost and better portability. This Special Issue aims to highlight recent methodological and technological advances in the development of sensor-based gas sensing technologies and their applications in diverse fields (environment, food, cosmetic, medical, etc.). It will cover topics including, but not limited to, the development of novel gas sensors (olfactory biosensors, electronic nose, chemical sensors, nanosensors, optoelectronic and photonic sensors, optomechanical sensors, remote sensors, etc.); the design and synthesis of new materials for the improvement of sensor performance; the input of artificial intelligence for data treatment; the application of the developed gas sensors in diverse fields. Both original research papers and review articles are welcome.

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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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