



sensors



an Open Access Journal by MDPI

New Trend for Gas Sensor Development: From Sensing Materials to Metrological Evaluation

Guest Editors:

Dr. Mariangela Catena Latino

CNR-IPCF, Institute for Chemical-Physical Processes, Viale F. Stagno D'Alcontres, 37, 98158 Messina, Italy

Dr. Giovanni Gugliandolo

Department of Engineering, University of Messina, 98166 Messina, Italy

Deadline for manuscript submissions:

28 June 2024

Message from the Guest Editors

It is with great pleasure that we invite you to contribute to our Special Issue entitled "New Trend for Gas Sensor Development: From Sensing Materials to Metrological Evaluation".

Gas sensors are an integral part of everyday life and are crucial for monitoring indoor and outdoor air quality. The constant emissions from industry, households and vehicles have a profound effect on our living environment. In this context, there is an urgent need for research and development focused on gas sensors based on innovative materials with improved metrological performance.

Our Special Issue seeks both research and review papers that contribute to the meteorological characterization of chemical–physical innovative materials for the design and fabrication of sensors and sensor-based measurement systems.

We are particularly interested in papers detailing the structural characterization and analysis of sensing properties in advanced and novel materials. We also welcome new theoretical and experimental insights into gas sensing mechanisms, as well as innovative transduction mechanisms operating across a wide frequency range, from DC to microwave frequencies.



mdpi.com/si/192358

Special Issue



sensors



an Open Access Journal by MDPI

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

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.

Author Benefits

Open Access : free for readers, with [article processing charges \(APC\)](#) paid by authors or their institutions.

High Visibility: indexed within [Scopus](#), [SCIE \(Web of Science\)](#), [PubMed](#), [MEDLINE](#), [PMC](#), [Ei Compendex](#), [Inspec](#), [Astrophysics Data System](#), and [other databases](#).

Journal Rank: JCR - Q2 (*Instruments & Instrumentation*) / CiteScore - Q1 (*Instrumentation*)

Contact Us

Sensors Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/sensors
sensors@mdpi.com
[X@Sensors_MDPI](#)