

Special Issue

Electronic Nose and Artificial Olfaction

Message from the Guest Editors

The olfactory system, a complex and intricate sensory mechanism, plays a pivotal role in our daily lives, influencing our perceptions, behaviors, and well-being. Over the years, the development of Electronic Nose (eNose) technology has been driven by the aspiration to replicate and enhance the olfactory capabilities of humans for various applications spanning industries. It is based on the use of gas sensors combined with pattern recognition methods. Both topics have made great advances in recent years and are worth reviewing in this Special Issue. Chemical sensors have improved their metrological parameters such as the limit of detection, the linearity of the response signal, sensitivity, selectivity, size, consumption, response time and repeatability. The second involved the development of advanced embedded or remote signal and data analysis techniques, including big data and cloud computing.

Guest Editors

Prof. Dr. Jesus Lozano

Dr. Antonio Ruiz-Canales

Dr. Patricia Arroyo

Deadline for manuscript submissions

15 March 2026



Sensors

an Open Access Journal
by MDPI

Impact Factor 3.5
CiteScore 8.2
Indexed in PubMed



mdpi.com/si/200416

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

[mdpi.com/journal/
sensors](https://mdpi.com/journal/sensors)





Sensors

an Open Access Journal
by MDPI

Impact Factor 3.5
CiteScore 8.2
Indexed in PubMed



[mdpi.com/journal/
sensors](https://mdpi.com/journal/sensors)



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

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

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 and Instrumentation) / CiteScore - Q1 (Instrumentation)