

## Special Issue

# Design and Application of Nanosensor Arrays

### Message from the Guest Editors

This Special Issue encompasses a comprehensive range of transductions in sensor design, including optical, electrical, and electrochemical methods, to highlight the versatility of nanosensor arrays. Additionally, the issue aims to address the application of nanosensor arrays in gas sensing, emphasizing their role in identification and quantification of various gas molecules in environmental. The description underscores the physical particularities of sensors at the nanoscale, such as high surface area-to-volume ratio, electrical conductivity, unique magnetic properties, and quantum effects, which can significantly impact the performance and sensitivity of bulk materials used in sensor applications.

### Guest Editors

Dr. Yingying Geng

Fox Chase Cancer Center, Philadelphia, PA 19111, USA

Dr. Abdelhafed Taleb

Laboratoire Interfaces Traitements Organisation et DYnamique des Systèmes, (ITODYS-CNRS/UMR7086, Paris Cité University), Sorbonne University, Paris, France

### Deadline for manuscript submissions

1 October 2025



## Sensors

an Open Access Journal  
by MDPI

Impact Factor 3.5  
CiteScore 8.2  
Indexed in PubMed



[mdpi.com/si/228652](https://mdpi.com/si/228652)

*Sensors*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[sensors@mdpi.com](mailto: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)