

## Special Issue

# Advanced Nanomaterial Architectures in Sensing Systems

### Message from the Guest Editors

The field of sensing systems has attracted a significant amount of interest from many areas, e.g., industry, environment, and health. The significant advance in technologies in the 21st century is founded on the development of new material combinations at the nanoscale, providing excellent architectures alongside good sensing properties. Nanostructures offer significant advantages to sensors due to their unique physical, chemical, and electronic properties. Using smart sensors leads to significant improvements in the quality and cost, as well as reducing the time, of investigations, wherever required. Real-time analyses, diagnostics, and monitoring in health care and the environment, to cite just a few applications, can be conducted without special preparations. This Special Issue aims to cover all aspects of using nanomaterials in sensing systems, including design, fabrication, applications in sensing platforms, results obtained for improved sensor applications and improved sensor application protocols, simulations, and artificial intelligence protocols. Original research articles and reviews are welcome.

### Guest Editors

Dr. Cristiana Eugenia Ana Grigorescu

Optospintronics Department, National Institute for Research and Development in Optoelectronics-INOE 2000, 409 Atomistilor, 077125 Magurele, Romania

Dr. Alexei Zubarev

Plasma Physics and Nuclear Fusion Laboratory, National Institute for Laser, Plasma & Radiation Physics, RO-077125 Magurele, Romania

### Deadline for manuscript submissions

31 May 2026



## Sensors

an Open Access Journal  
by MDPI

Impact Factor 3.5  
CiteScore 8.2  
Indexed in PubMed



[mdpi.com/si/249433](https://mdpi.com/si/249433)

*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)