

## Special Issue

# Micro/Nanoelectromechanical Systems (MEMS/NEMS)

### Message from the Guest Editors

Micro/nanoelectromechanical systems (MEMS/NEMS) have offered a viable platform to implement sensors and actuators, from commercially available transducers for real-world applications to novel transducers with significant transformative attributes. Their potential in a wide range of applications including permittivity measurements and material characterizations, medical diagnostics, and non-invasive measurements provides significant opportunity for the research community to explore innovative approaches that address the need for scalable, high-precision, and highly efficient transducers. The novel designs, materials, micro/nanofabrication techniques, and applications of various MEMS/NEMS are widely studied in biological detection, physical sensing, and quantum coupling. This Special Issue on “Micro/Nanoelectromechanical Systems (MEMS/NEMS)” highlights the latest research in MEMS and NEMS with a focus on new materials and structures added in mainstream micro/nanofabrication methods.

### Guest Editors

Dr. Ali Mohammadi

Department of Electrical and Electronic Engineering, University of Bath, Bath BA27AY, UK

Prof. Dr. Christopher Rhys Bowen

Department of Mechanical Engineering, University of Bath, Bath BA27AY, UK

### Deadline for manuscript submissions

closed (30 June 2025)



## Sensors

an Open Access Journal  
by MDPI

Impact Factor 4.0  
CiteScore 9.4  
Indexed in PubMed



[mdpi.com/si/215515](https://mdpi.com/si/215515)

*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 4.0  
CiteScore 9.4  
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

Department of Electrical and Information Engineering, Politecnico di Bari, Via Orabona 4, 70126 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)