

## Special Issue

# Advanced Sensors in MEMS: 2nd Edition

### Message from the Guest Editors

Microelectromechanical systems (MEMS) are microstructures able to couple the mechanical and electrical energy domains at micro- or nanoscales, often involving other energy domains in these interactions. Their micrometre-scale dimensions generate both specific advantages (e.g., electromechanical feedback control, fast time response and better efficiency for some specific sensing mechanisms) and challenges (e.g., lower energy generation yield for thermal micromachines), allowing researchers to rethink the design and analysis methods for customized macroengineering at microscale solutions. Technological advances in MEMS initially took advantage of the existing microelectronics industry, and they have gradually spurred specific microfabrication methods, moving beyond silicon. In this context, an increasing amount of research and number of applications have emerged for MEMS transducers. This Special Issue will encompass high-quality research contributions focusing on the advances in MEMS sensors.

### Guest Editors

Prof. Dr. Edmond Cretu

Department of Electrical and Computer Engineering, University of British Columbia, Vancouver, BC V6T 1Z4, Canada

Dr. Chang Ge

Department of Electrical and Computer Engineering, University of British Columbia, Vancouver, BC V6T 1Z4, Canada

### Deadline for manuscript submissions

closed (20 December 2025)



## Sensors

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.5  
CiteScore 8.2  
Indexed in PubMed



[mdpi.com/si/205240](https://mdpi.com/si/205240)

*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)