

## Special Issue

# MEMS Devices for Biomedical Applications

### Message from the Guest Editors

Biomedical MEMS are key components of state-of-the-art diagnostic approaches that are featured by high sensitivity, low response time and low variability. Novel concepts of today's BioMEMS rely on the exploitation of sophisticated micro- and nanofabrication processes using smart, responsive or functional materials.

Expectations from the global community focus on autonomously working, low-cost solutions accompanied by integrated features to precisely identify or monitor biomolecules, pathogens and other chemical substances. This Special Issue aims to provide opportunity to address aspects of design, materials, technology, and applications of MEMS based sensors and actuators for biomedical research and industry. Contributions may include novel operation principles, components and architecture of lab-on-a-chip, organ-on-a-chip and microTAS systems. Both review papers and original research articles are welcome.

---

### Guest Editors

Prof. Dr. Zoltán Fekete

Faculty of Information Technology & Bionics, Pázmány Péter Catholic University, 1085 Budapest, Hungary

Prof. Dr. Wamadeva Balachandran

Centre for Electronic Systems Research, Electronic and Computer Engineering, CEDPS, Brunel University London, Kingston Lane, Uxbridge UB8 3PH, UK

---

### Deadline for manuscript submissions

closed (31 March 2022)



## Sensors

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.5  
CiteScore 8.2  
Indexed in PubMed



[mdpi.com/si/79842](https://mdpi.com/si/79842)

*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)