

## Special Issue

# Next-Generation Materials for Wearable Sensors

### Message from the Guest Editors

Wearable technology has revolutionized various sectors, from healthcare and fitness to entertainment and personal safety. Central to this revolution are wearable sensors, devices integrated into textiles or directly attached to the skin to monitor physiological signals, environmental conditions, and user activities. However, the effectiveness and widespread adoption of these devices are heavily dependent on the materials used in their construction. Next-generation materials for wearable sensors promise to address current limitations and open new horizons for functionality, comfort, and durability. This Special Issue aims to explore the latest advancements in materials science that drive the innovation of wearable sensors. It will cover a broad spectrum of topics, including the synthesis and characterization of novel materials, their integration into wearable devices, and their applications in real-world scenarios. By highlighting cutting-edge research and developments, this Special Issue seeks to foster a deeper understanding of the role of advanced materials in the future of wearable technology.

---

### Guest Editors

Prof. Dr. George K. Stylios

Research Institute for Flexible Materials, School of Textiles and Design,  
Heriot-Watt University, Edinburgh EH14 4AS, UK

Dr. Akshaya Aliyana

Research Institute for Flexible Materials, School of Textiles and Design,  
Heriot-Watt University, Edinburgh EH14 4AS, UK

---

### Deadline for manuscript submissions

closed (31 March 2025)



## Sensors

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.5  
CiteScore 8.2  
Indexed in PubMed



[mdpi.com/si/207983](https://mdpi.com/si/207983)

*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  
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)