

# Special Issue

## Advanced Sensing Technologies for Smart Drug Delivery

### Message from the Guest Editors

Smart drug delivery systems integrated with advanced sensing technologies are revolutionizing precision medicine by enabling real-time monitoring and on-demand therapeutic release. This Special Issue explores cutting-edge innovations at the intersection of biosensing and controlled drug delivery, including wearable/implantable sensors, closed-loop feedback systems, nanomaterial-based detectors, and AI-driven adaptive platforms. We invite contributions on novel sensor designs (optical, electrochemical, mechanical), responsive drug carriers (e.g., pH-, enzyme-, or biomarker-triggered), and hybrid systems for applications in chronic disease management, cancer therapy, and personalized medicine. Both fundamental research and translational studies addressing scalability, biocompatibility, and clinical validation are welcome. By bridging sensing and actuation, this Special Issue aims to highlight transformative strategies for autonomous, targeted, and efficient therapeutics.

### Guest Editors

Dr. Xinwei Wei

College of Pharmaceutical Sciences, Zhejiang University, Hangzhou 310027, China

Dr. Steve Ling

Department of Electrical and Data Engineering, University of Technology Sydney, Sydney 00099F, Australia

### Deadline for manuscript submissions

31 October 2026



## Sensors

an Open Access Journal  
by MDPI

Impact Factor 3.5  
CiteScore 8.2  
Indexed in PubMed



[mdpi.com/si/251975](https://mdpi.com/si/251975)

*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)