

Special Issue

Advances in Sensing Technology: From Photon, Electron to Signal Processing

Message from the Guest Editors

We are pleased to announce a Special Issue exploring cutting-edge developments at the intersection of photonics, electronics, and signal processing. This collection aims to showcase innovative research and technological advancements that are expanding the frontiers of sensing capabilities across diverse domains. From fundamental photon detection to sophisticated signal analysis, the articles will encompass a wide spectrum of sensing technologies and their applications. In our increasingly connected and data-driven world, the demand for more precise, efficient, and versatile sensing systems continues to grow exponentially. This Special Issue brings together contributions from leading researchers and industry experts, offering insights into the latest breakthroughs in sensor design, fabrication, and integration. By examining the journey from photon capture to meaningful signal output, we aim to inspire further innovation and cross-disciplinary collaboration in this rapidly evolving field.

Guest Editors

Dr. Yuxi Ruan

Dr. Bin Liu

Dr. Yuanlong Fan

Deadline for manuscript submissions

31 December 2025



Sensors

an Open Access Journal
by MDPI

Impact Factor 3.5
CiteScore 8.2
Indexed in PubMed



mdpi.com/si/210136

Sensors
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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)