Special Issue

Advanced Silicon Photomultiplier Based Sensors

Message from the Guest Editor

This Special Issue aims to provide an overview of the recent developments in the field of analog and digital silicon photomultipliers, as well as single-photon avalanche diodes and solid-state photomultiplier (SSPM) technologies. We will also explore novel applications based on such innovative SiPMs to understand the novel challenges and innovative solutions needed for such different applications.

Keywords:
- SiPM
- silicon photomultiplier
- single-photon
- avalanche photodiode
- solid-state photomultiplier
- detection efficiency
- radiation
- scintillation
- Cherenkov

Guest Editor

Dr. Fabio Acerbi
Sensor and Devices Center, Fondazione Bruno Kessler (FBK), I-38123 Trento, Italy

Deadline for manuscript submissions

closed (20 May 2026)

Sensors

an Open Access Journal by MDPI

Impact Factor 3.5
CiteScore 9.4
Indexed in PubMed

mdpi.com/si/166074

Sensors
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
sensors@mdpi.com

mdpi.com/journal/sensors

Sensors

an Open Access Journal by MDPI

Impact Factor 3.5
CiteScore 9.4
Indexed in PubMed

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)