



sensors



an Open Access Journal by MDPI

Radiation Detectors and Sensing Technologies for Biomedical Applications

Guest Editor:

Dr. Christos M. Michail

Department of Biomedical
Engineering, Radiation Physics,
Materials Technology and
Biomedical Imaging Laboratory,
University of West Attica, Athens,
Greece

Deadline for manuscript
submissions:

30 September 2024

Message from the Guest Editor

Dear Colleagues,

The medical sensors market is expected to grow another 10% in the next few years due to the increasing demand for novel technologies that provide more accurate medical healthcare information and improve patients' quality of life.

Various detectors and sensing technologies have been used so far to convert different types of radiation (X-ray, light), flow, magnetic fields, pressure, temperature, humidity, etc. into biomedical signals. Every specific biomedical modality has distinct requirements for the sensor's properties, such as detection efficiency, long term stability, flexibility, transparency, biocompatibility, etc.

The aim of this Special Issue is to highlight state-of-the-art research in radiation detectors and sensing technologies, as well as the existing challenges and future developments in biomedical applications.

Dr. Christos M. Michail
Guest Editor



mdpi.com/si/113689

Special Issue



sensors



an Open Access Journal by MDPI

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

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.

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 & Instrumentation*) / CiteScore - Q1 (*Instrumentation*)

Contact Us

Sensors Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/sensors
sensors@mdpi.com
[X@Sensors_MDPI](#)