Special Issue

Optical Sensing for Biomedical Applications

Message from the Guest Editors

This Special Issue "Optical Sensing for Biomedical Applications" aims to provide a forum for researchers involved in bioengineering and bioelectronics to report their significant results and developments or to provide an overview of research focused on the recent advances and in optical sensing and/or imaging technologies and methodologies for basic research, preclinical/clinical, and biological applications. This Special Issue concludes the following topics, but not limited to:

- Optical sensing/imaging modalities
- Novel methods, algorithms, and principles in optical detection and biological diagnosis
- Applications of optical biosensors and optical probes in medical diagnostics, healthcare, cell biology, agriculture, environmental monitoring
- Methods to address issues of existing optical biosensors, concerning the fabrication, miniaturization, sensitivity, selectivity, applicability, accuracy, and biocompatibility
- Computer-aided detection/diagnosis
- Als for biomedical image and signal data analysis

Guest Editors

Prof. Dr. Woo June Choi

School of Electrical and Electronics Engineering, College of ICT Engineering, Chung-Ang University, Seoul 06974, Korea

Prof. Dr. Jun Ki Kim

Asan Institute for Life Science, Asan Medical Center and University of Ulsan, College of Medicine, Seoul 05505, Korea

Deadline for manuscript submissions

closed (31 May 2022)



Electronics

an Open Access Journal by MDPI

Impact Factor 2.6 CiteScore 6.1



mdpi.com/si/36069

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

mdpi.com/journal/electronics





Electronics

an Open Access Journal by MDPI

Impact Factor 2.6 CiteScore 6.1



About the Journal

Message from the Editor-in-Chief

Electronics is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guestedited by leading experts in selected topics of interest.

Editor-in-Chief

Prof. Dr. Flavio Canavero

Department of Electronics and Telecommunications, Politecnico di Torino, 10129 Torino, Italy

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), CAPlus / SciFinder, Inspec, Ei Compendex and other databases.

Journal Rank:

JCR - Q2 (Engineering, Electrical and Electronic) / CiteScore - Q1 (Electrical and Electronic Engineering)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.8 days after submission; acceptance to publication is undertaken in 2.4 days (median values for papers published in this journal in the first half of 2025).

