



Bioelectronics and Biosensors in Diagnostics, Biotechnology and Clinical Research: Challenges and Opportunities

Guest Editors:

Prof. Dr. Nicola Francesco Lopomo

Dr. Sarah Tonello

Dr. Michela Borghetti

Prof. Dr. Jichai Jeong

Deadline for manuscript
submissions:
closed (20 March 2023)

Message from the Guest Editors

Recent attention has been addressed to novel strategies for lowering the costs of sensitive biosensors fabrication, to customized hardware for ensuring effective conditioning in integrated solutions, and, finally, to advanced signal processing techniques to enhance the performances of the developed platforms from a multi-parametric perspective (e.g., deep learning, multi-sensor networks).

The aim of this Special Issue is to collect the most recent developments in this field, providing a comprehensive picture of the most promising trends and of the open challenges still to be overcome for strengthening the role of biosensors in the study, detection, and control of pathophysiological processes.

Both research papers and review articles covering the following topics are welcome to this Special Issue:

- Biosensors and bioelectronics
- Printed electronics for biosensing
- Biomaterials for biosensors
- Biomarkers detection
- Cell culture monitoring
- Electrochemical sensors
- Non-invasive sensing
- Nanostructured sensors
- Points of care
- Advanced signal processing/machine learning for biotechnology





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Flavio Canavero

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

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 guest-edited by leading experts in selected topics of interest.

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), CAPus / SciFinder, Inspec, and other databases.

Journal Rank: JCR - Q2 (*Physics, Applied*) / CiteScore - Q2 (*Control and Systems Engineering*)

Contact Us

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

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

mdpi.com/journal/electronics
electronics@mdpi.com
[X@electronicsMDPI](https://twitter.com/electronicsMDPI)