

Special Issue

Advanced Biosensing Technologies in Medical Applications

Message from the Guest Editor

As the novel coronavirus (COVID-19) is continually raging around the world, rapid and precise screening has become one effective measure to impede its fast spread. This urgent need for controlling the epidemic raises the necessity of developing more powerful biosensing technologies. As a result, this Special Issue aims to present the most advanced biosensing technologies which can be used for various biological entities. In that sense, a broad range of topics in this area, from integration methods to novel microfluidic-based sensors in medical applications, will be covered. Your articles may inspire potential solutions to end the escalating pandemic. Most importantly, the dissemination of innovative knowledge through the academic platform can form a potent defense for humans and help to prepare well for the next devastating disease outbreak. The main topic is related but not limited to:

- Biosensors
- Microfluidic devices
- Biochips
- Diagnostics
- Lab-on-chip
- Bio-MEMS/Bio-NEMS
- Point-of-care
- Precision medicine
- Sensitivity/specificity/accuracy
- Rapid detection

Guest Editor

Prof. Dr. Han-Sheng Chuang

Department of Biomedical Engineering, National Cheng Kung University, Tainan, Taiwan

Deadline for manuscript submissions

closed (30 June 2022)



Biosensors

an Open Access Journal
by MDPI

Impact Factor 5.6
CiteScore 9.8
Indexed in PubMed



mdpi.com/si/45945

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

[mdpi.com/journal/
biosensors](https://mdpi.com/journal/biosensors)





Biosensors

an Open Access Journal
by MDPI

Impact Factor 5.6
CiteScore 9.8
Indexed in PubMed



[mdpi.com/journal/
biosensors](https://mdpi.com/journal/biosensors)



About the Journal

Message from the Editor-in-Chief

Biosensors is a leading journal, devoted to fast publication of the latest achievements, technological developments and scientific research in the exciting multidisciplinary area of biosensors. Both experimental and theoretical papers are published, including all aspects of biosensor design, technology, proof of concept and application. Special issues are devoted to specific technologies and applications, and a selection of the most outstanding papers each year is recognized. Pushing the boundaries of the discipline, we invite original papers, as well as timely reviews on cutting edge fields within the subject area.

Editor-in-Chief

Prof. Dr. Giovanna Marrazza

Department of Chemistry "Ugo Schiff", University of Florence, Via della
Lastruccia 3, 50019 Sesto Fiorentino, Italy

Author Benefits

High Visibility:

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

Journal Rank:

JCR - Q1 (Instruments and Instrumentation) / CiteScore - Q1 (Instrumentation)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 21.8 days after submission; acceptance to publication is undertaken in 2.8 days (median values for papers published in this journal in the first half of 2025).