



## Micro- and Nanopore Biosensors

Guest Editor:

**Prof. Dr. Makusu Tsutsui**

The Institute of Scientific and  
Industrial Research, Osaka  
University, 8-1 Mihogaoka,  
Ibaraki, Osaka 567-0047, Japan

Deadline for manuscript  
submissions:

**closed (31 December 2021)**

### Message from the Guest Editor

Micro- and nanopore biosensing is a fascinating interdisciplinary research frontier encompassing life science, physics, chemistry, and today even informatics. It measures electrical or optical signals upon translocation or trap of analytes in a specially designed hole in either a solid-state or a biological membrane that allows identification of single molecules and particles of virtually any size from cell to nucleotide in electrolyte solution. Significant efforts have been devoted in the last decade to making use of the simple and versatile sensor mechanism for a vast range of analytical applications, such as particle analyses, cancer diagnostics, viral screening, proteomics, and genome sequencing. This Special Issue aims to showcase cutting-edge research and reviews on micro- and nanopore sensors for its meaningful and wonderful prospects.





an Open Access Journal by MDPI

## Editor-in-Chief

### **Prof. Dr. Giovanna Marrazza**

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

## 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.

## 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, Embase, CAPus / SciFinder, Inspec, and other databases.

**Journal Rank:** JCR - Q1 (*Chemistry, Analytical*) / CiteScore - Q1 (*Engineering (miscellaneous)*)

## Contact Us

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

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/biosensors](http://mdpi.com/journal/biosensors)  
[biosensors@mdpi.com](mailto:biosensors@mdpi.com)  
[X@Biosensors\\_MDPI](https://twitter.com/Biosensors_MDPI)