



an Open Access Journal by MDPI

## Biosensors in Nanotechnology

Guest Editors:

**Dr. Leila Taghizadeh**

Department of Mathematics,  
Technical University of Munich,  
Boltzmannstraße 3, 85748  
Garching, Germany

**Prof. Dr. Clemens Heitzinger**

Institute of Analysis and Scientific  
Computing, TU Wien, Wiedner  
Hauptstraße 8–10, 1040 Vienna,  
Austria

Deadline for manuscript  
submissions:

**closed (31 March 2022)**

### Message from the Guest Editors

Nanotechnological sensors have various applications in the real world including food quality control, medical engineering, diagnostics for healthcare, and environmental monitoring. New technologies always lead to new challenges; the solution of kinetic and transport equations which model sensors in nanoscale have been a challenging problem. Other challenges include stochastic modeling, homogenization, multiscale problems, efficient computational methods, sensitivity, stability and robustness, sensor configuration, optimal and reliable design, and uncertainty quantification.

This Special Issue of Biosensors aims to provide a platform for the publication of original high-quality research papers covering the most recent advances as well as comprehensive reviews in the field of biosensors in nanotechnology, nanomaterials for sensors, and nano-based sensors. This includes (but is not limited to) theoretical development, mathematical models, variational formulations and numerical algorithms, inverse problems, optimization, machine learning approaches, probabilistic and stochastic approaches, and computational methods. Both original papers and reviews are welcome.



[mdpi.com/si/89428](https://mdpi.com/si/89428)

# Special Issue



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, CAPlus / SciFinder, Inspec, and other databases.

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

## Contact Us

---

*Biosensors* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

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

mdpi.com/journal/biosensors  
biosensors@mdpi.com  
X@Biosensors\_MDPI