



*sensors*



an Open Access Journal by MDPI

## Key Enabling Technologies Based on Micro and Nanotechnology for Biosensors

Guest Editors:

**Dr. Daniel Matatagui**

Dpto. de Ingeniería Informática,  
Escuela Politécnica Superior,  
Universidad Autónoma de  
Madrid, 28049 Madrid, Spain

**Prof. Dr. Jesus Lozano**

Industrial Engineering School,  
University of Extremadura, 06006  
Badajoz, Spain

Deadline for manuscript  
submissions:

**closed (31 July 2021)**

### Message from the Guest Editors

Biosensors are attracting significant interest in the fields of medicine, environment, and the food industry. This is because of their potential applications in the detection and quantification of a wide range of toxic agents (contaminates such as pesticides; heavy metals; and volatile organic compounds found in food, air, and drinking water capable of causing intoxication, disease, or chronic illness); diverse, clinically important pharmacologically species (pathogenic organisms, active molecules, microbial metabolites, and disease markers); and by-products of the food industry processes (e.g., ethanol, glucose, and bioactive compounds to indirectly measure the process conditions and quality of the products). Micro and nanotechnology are playing an increasingly important role in the progress of biosensors, allowing the development of sophisticated instrumentation in cheap and portable microsystems. The goal of this Special Issue is to encourage scientists to publish as much detail as possible related to all aspects of biosensors based on micro and nanotechnology, from their theory and design to the applications of complete sensing devices.



[mdpi.com/si/34493](https://mdpi.com/si/34493)

# Special Issue



*sensors*



an Open Access Journal by MDPI

## Editor-in-Chief

### **Prof. Dr. Vittorio M. N. Passaro**

Dipartimento di Ingegneria  
Elettrica e dell'Informazione  
(Department of Electrical and  
Information Engineering),  
Politecnico di Bari, Via Edoardo  
Orabona n. 4, 70125 Bari, Italy

## Message from the Editor-in-Chief

*Sensors* is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. *Sensors* organizes Special Issues devoted to specific sensing areas and applications each year.

## 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](#), [Ei Compendex](#), [Inspec](#), [Astrophysics Data System](#), and [other databases](#).

**Journal Rank:** JCR - Q2 (*Instruments & Instrumentation*) / CiteScore - Q1 (*Instrumentation*)

## Contact Us

*Sensors* 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/sensors](http://mdpi.com/journal/sensors)  
[sensors@mdpi.com](mailto:sensors@mdpi.com)  
[X@Sensors\\_MDPI](#)