# **Special Issue**

### Transforming Diagnostics with Immunosensors: From Design to Real-World Applications

### Message from the Guest Editors

Immunosensing technologies and biosensors are transforming conventional diagnostic approaches in various domains, including healthcare, food safety, and environmental monitoring. This study area emphasizes sophisticated immunosensing techniques and their applications for the accurate and swift detection of target analytes. This Special Issue will focus on the advancement of biosensors including improved sensitivity and selectivity, incorporating novel materials such as nanoparticles, quantum dots, and sophisticated polymers for signal enhancement and durability. Contributions that demonstrate sensors with commercialization potential, such portable devices for disease diagnostics or environmental monitoring, are especially encouraged. Highlighted subjects encompass innovative bioreceptor designs, advanced transduction techniques, and the utilization of immunosensors for the detection of pathogens, disease biomarkers, and environmental pollutants. We invite articles that advance immunosensing technology, providing novel insights and practical applications in diagnostics and other fields.

### **Guest Editors**

Dr. Ashutosh Kumar Department of Electrical Engineering, University of Notre Dame, Notre Dame, IN 46637, USA

Dr. Apurba Paul Department of Electrical Engineering, University of Notre Dame, Notre Dame, IN 46637, USA

#### Deadline for manuscript submissions

20 February 2026



## Sensors

an Open Access Journal by MDPI

Impact Factor 3.5 CiteScore 8.2 Indexed in PubMed



mdpi.com/si/222261

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

#### mdpi.com/journal/

sensors





## Sensors

an Open Access Journal by MDPI

Impact Factor 3.5 CiteScore 8.2 Indexed in PubMed



sensors



## About the Journal

### 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.

#### 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

### **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 and Instrumentation) / CiteScore - Q1 (Instrumentation)