



sensors



an Open Access Journal by MDPI

Advances in Electrochemical Sensors for Biomedical Applications

Guest Editors:

Prof. Dr. Roger Jagdish Narayan

Department of Biomedical Engineering, North Carolina State University, Raleigh, NC 27695, USA

Dr. Yugender Goud Kotagiri

Department of Chemistry, Indian Institute of Technology Palakkad, Palakkad 678623, Kerala, India

Deadline for manuscript submissions:

31 July 2024

Message from the Guest Editors

The early detection of chronic diseases is an important task in modern research. Biomarker screening can help in the diagnosis of chronic diseases such as diabetes and heart disease. Current technologies available on the market are not satisfactory solutions for medical diagnoses. There is a need to improve the detection of biomarkers associated with chronic disease. Electrochemical biosensing strategies may support the detection of chronic disease biomarkers.

This Special Issue, “Advances in Electrochemical Sensors for Biomedical Applications”, covers research on the point of care or wearable-based sensors for the rapid detection of various analytes, including biomarkers, therapeutic drugs, and physiologically relevant ions, with the aid of electrochemical transduction techniques. Here, the main focus is on the development of hand-held point-of-care devices and smart wearable sensing devices with advanced biosensing strategies.

We encourage authors to submit research articles and reviews to this Special Issue to share your work, insights, and recent accomplishments with the biosensor research community.



mdpi.com/si/195297

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

mdpi.com/journal/sensors
sensors@mdpi.com
[X@Sensors_MDPI](#)