

Topical Collection

Electrochemical Biosensors for Medical Diagnosis

Message from the Collection Editor

Among the new analytical methods capable of accomplishing effective clinical diagnostic tools, biosensors play a promising role providing ease of execution, specificity for the target analyte, fast response time and capability for continuous monitoring. Particularly, electrochemical biosensors exploit a detection mechanism based on electrochemical reactions that directly generate an electronic signal. This feature greatly simplifies signal transduction avoiding expensive equipment requirements. In order to get increasingly performing devices, in the last years many efforts have been devoted to the development of electrode modification approaches able to realize efficient platforms for bioreceptors immobilization along with detection schemes aimed to overcome the undesired effects of electrochemical detection, namely electrode fouling and faradic interference. The aim of this Special Issue is to focus on the most recent approaches to realize innovative and enhanced electrochemical biosensors for medical diagnosis.

Collection Editor

Dr. Rosanna Ciriello

Dipartimento di Scienze, Università degli Studi della Basilicata, Potenza, Italy



Chemodosensors

an Open Access Journal
by MDPI

Impact Factor 3.7
CiteScore 7.3



mdpi.com/si/75175

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

[mdpi.com/journal/
chemodosensors](https://mdpi.com/journal/chemodosensors)





Chemosensors

an Open Access Journal
by MDPI

Impact Factor 3.7
CiteScore 7.3



[mdpi.com/journal/
chemosensors](https://mdpi.com/journal/chemosensors)



About the Journal

Message from the Editorial Board

Chemosensors continues to grow as a forum for all manners of sensing that encompass chemistry. *Chemosensors* is published in open access format – all articles and content are released on the internet immediately following acceptance, thus allowing unlimited access to the content as soon as it is published. We would be happy to have you join our growing list of authors.

Editors-in-Chief

Prof. Dr. Jin-Ming Lin

Beijing Key Laboratory of Microanalytical Methods and Instrumentation,
Department of Chemistry, Tsinghua University, Beijing 100084, China

Prof. Dr. Nicole Jaffrezic-Renault

Institute of UTINAM, University of Franche-Comté, UMR-CNRS 6213, 16
Gray Road, 25030 Besançon, France

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), CAPus /
SciFinder, Inspec, Engineering Village and other
databases.

Journal Rank:

JCR - Q2 (Instruments and Instrumentation) / CiteScore -
Q1 (Physical and Theoretical Chemistry)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is
provided to authors approximately 20.5 days after
submission; acceptance to publication is undertaken in 2.8
days (median values for papers published in this journal in
the first half of 2025).