



Electrochemical Sensors in Biological Applications

Guest Editors:

Dr. Iulia Gabriela David

Department of Analytical
Chemistry and Physical
Chemistry, Faculty of Chemistry,
University of Bucharest, 90-92
Panduri Avenue, Bucharest 5,
060274 Bucharest, Romania

Dr. Mihaela Buleandra

Department of Analytical
Chemistry, Faculty of Chemistry,
University of Bucharest, 90-92
Panduri Avenue, Bucharest
5,060274 Bucharest, Romania

Deadline for manuscript
submissions:

closed (15 September 2021)

Message from the Guest Editors

Dear Colleagues,

Due to their inherent analytical performance characteristics, electrochemical sensors have attracted more and more attention in recent years, being used as detection tools in various applications, an important role being played by biological ones. The plenty of electrode materials as well as the methods and compounds developed for modifying the sensor surfaces, coupled with appropriate electrochemical techniques ensure the sensitivity and selectivity of the sensors, making them suitable for the detection of analytes from complex matrices like pharmaceuticals, biological fluids, food or environmental samples. On the other hand, as they can be miniaturized and employed in portable instruments, sometimes as disposable electrodes, they are easy-to-use and cost-effective analytical devices enabling on-site, real time, on-line and in-line analysis. Considering all these aspects, electrochemical sensors are often the best choice for the rapid and simple detection of various biological active compounds from different matrices.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Ai-Qun Liu

1. Department of Electrical and Electronic Engineering, The Hong Kong Polytechnic University, Hong Kong, China
2. School of Electrical and Electronic Engineering, Nanyang Technological University, Singapore 639798, Singapore

Message from the Editor-in-Chief

You are invited to contribute research articles or comprehensive reviews for consideration and publication in *Micromachines* (ISSN 2072-666X). *Micromachines* is published in the open access format. Research articles, reviews and other contents are released on the internet immediately after acceptance. The scientific community and the general public have unlimited free access to the content as soon as it is published. As an open access journal, *Micromachines* is supported by the authors or their institutes by payment of article processing charges (APC) for accepted papers. We are pleased to welcome you as our authors.

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, PMC, Ei Compendex, dblp, and other databases.

Journal Rank: JCR - Q2 (*Physics, Applied*) / CiteScore - Q2 (*Mechanical Engineering*)

Contact Us

Micromachines Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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

mdpi.com/journal/micromachines
micromachines@mdpi.com
[X@micromach_mdpi](https://twitter.com/micromach_mdpi)