Special Issue

Progress in Electrochemical Sensors for Health and Environmental Monitoring

Message from the Guest Editors

Electrochemical techniques with highly multiplexed electrode arrays and miniature potentiostats offer a viable economical means of detecting different classes of chemicals via direct oxidation or reduction at a modified working electrode. However, challenges remain in designing an affordable eco-friendly electrochemical sensor that can operate reliably in minimally or unprepared real-world samples. We welcome your contribution to this Special Issue, where we aim to publish state-of-the art research results of electrochemical sensors that focus on innovative electrode and sensor designs, novel transduction mechanisms, new materials, coatings, and processes that could be transformative for monitoring and ameliorating public health and environmental concerns.

Guest Editors

Dr. Prabhu Arumugam

Advanced Materials Research Laboratory, Institute for Micromanufacturing, Louisiana Tech University, Ruston, LA, USA

Prof. Dr. Shabnam Siddiqui

Department of Chemistry and Physics, Louisiana State University Shreveport, Shreveport, LA 71115, USA

Deadline for manuscript submissions

closed (15 December 2022)

Micromachines

an Open Access Journal by MDPI

Impact Factor 3.0
CiteScore 6.0
Indexed in PubMed

mdpi.com/si/97554

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

mdpi.com/journal/micromachines

Micromachines

an Open Access Journal by MDPI

Impact Factor 3.0
CiteScore 6.0
Indexed in PubMed

mdpi.com/journal/micromachines

About the Journal

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.

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

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, Ei Compendex, dblp, and other databases.

Journal Rank:

JCR - Q2 (Instruments and Instrumentation) / CiteScore - Q1 (Mechanical Engineering)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 17.2 days after submission; acceptance to publication is undertaken in 1.9 days (median values for papers published in this journal in the first half of 2025).

MDPI