

Special Issue

Nanostructured Electrochemical Sensors for Food Safety and Quality Control

Message from the Guest Editors

Foodborne-related diseases caused by additives and contaminants represent a significant challenge for food processing industries. Electrochemistry offers simple and robust analytical tools with several advantages over conventional methods. The development of a wide range of nanomaterials has opened the horizon for their applicability in the design of electrochemical sensing devices in different areas, food safety and quality control being one of them. Nanomaterial-based electrochemical sensors have garnered enormous attention due to their high sensitivity and selectivity, simple preparation, low-cost, real time monitoring, miniaturisation, and portability, among others.

The aim of this Special Issue is to provide the latest findings in this research field, namely development of innovative nanostructured electrochemical devices, their preparation, optimisation, characterisation and application to food and beverages safety and quality control. We invite original research papers and comprehensive reviews covering any experimental and computational approaches related to the abovementioned topics. Dr. Mariana Emilia Ghica

Guest Editors

Dr. Mariana Ghica

Department of Chemical Engineering, Chemical Engineering and Renewable Resources for Sustainability (CERES), University of Coimbra, 3030-790 Coimbra, Portugal

Dr. Rasa Pauliukaite

Department of Nanoengineering, Center for Physical Sciences and Technology, Savanoriu Ave 231, LT-02300 Vilnius, Lithuania

Deadline for manuscript submissions

closed (31 January 2023)



Molecules

an Open Access Journal
by MDPI

Impact Factor 4.6
CiteScore 8.6
Indexed in PubMed



mdpi.com/si/52963

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

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





Molecules

an Open Access Journal
by MDPI

Impact Factor 4.6
CiteScore 8.6
Indexed in PubMed



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



About the Journal

Message from the Editor-in-Chief

As the premier open access journal dedicated to experimental organic chemistry, and now in its 25th year of publication, the papers published in *Molecules* span from classical synthetic methodology to natural product isolation and characterization, as well as physicochemical studies and the applications of these molecules as pharmaceuticals, catalysts and novel materials. Pushing the boundaries of the discipline, we invite papers on multidisciplinary topics bridging biochemistry, biophysics and materials science, as well as timely reviews and topical issues on cutting edge fields in all these areas.

Editor-in-Chief

Prof. Dr. Thomas J. Schmidt

Institute of Pharmaceutical Biology and Phytochemistry, University of Münster, Corrensstrasse 48, D-48149 Münster, Germany

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, MEDLINE, PMC, Reaxys, CaPlus / SciFinder, MarinLit, AGRIS, and other databases.

Journal Rank:

JCR - Q2 (Biochemistry and Molecular Biology) / CiteScore - Q1 (Organic Chemistry)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.1 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the first half of 2025).