



Nanostructured Electrochemical Sensors for Food Safety and Quality Control

Guest Editors:

Dr. Mariana Emilia Ghica

Chemical Process Engineering
and Forest Products Research
Centre (CIEPQPF), Department of
Chemical Engineering, University
of Coimbra, 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)

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 Editor





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Thomas J. Schmidt

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

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.

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](#), [Reaxys](#), [CaPlus / SciFinder](#), [MarinLit](#), [AGRIS](#), and [other databases](#).

Journal Rank: JCR - Q2 (*Chemistry, Multidisciplinary*) / CiteScore - Q1 (*Chemistry (miscellaneous)*)

Contact Us

Molecules Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

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

mdpi.com/journal/molecules
molecules@mdpi.com
[X@Molecules_MDPI](https://twitter.com/Molecules_MDPI)