

Special Issue

Electrochemical Detection: A Molecular-Level Perspective

Message from the Guest Editors

This Special Issue, *“Electrochemical Detection: A Molecular-Level Perspective”*, will gather cutting-edge research and comprehensive reviews focused on molecular aspects of electrochemical detection. Instead of addressing electrochemical sensing in general, this Special Issue emphasizes studies that clarify the molecular interactions between specific biomolecules and electrode interfaces, revealing the fundamental steps that lead to electrochemical signal generation. We particularly welcome contributions that investigate the electrochemical detection of defined biomolecular systems, such as nucleic acids, proteins, enzymes, metabolites, or clinically relevant biomarkers, where the molecular recognition or reaction mechanism is elucidated. Research focused on the underlying mechanisms at electrochemical interfaces, including pathways of charge transfer, modes of molecular adsorption and orientation, electron-transfer behaviour, and conformational responses of biomolecules at the electrode surfaces, is also highly encouraged.

Guest Editors

Dr. Katarzyna Fendrych

Faculty of Materials Science and Ceramics, AGH University of Krakow,
al. Mickiewicza 30, 30-059 Krakow, Poland

Dr. Joanna Smajdor-Baran

Faculty of Materials Science and Ceramics, AGH University of Krakow,
al. Mickiewicza 30, 30-059 Krakow, Poland

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MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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The *International Journal of Molecular Sciences (IJMS)* is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, and molecular biophysics. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

Editor-in-Chief

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Avda. Conocimiento s/n, 18100 Armilla, Granada, Spain

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