

Special Issue

Application of Electrochemical Materials in Molecular Biology

Message from the Guest Editor

It has been said that “Molecular Electrochemistry” can be defined as “molecules for electrochemistry and electrochemistry for molecules”. In the era of almost unlimited possibilities in manufacturing materials of desired and carefully adjusted properties and an omnipresent tendency to downsize (bio)analytical devices, electrochemistry takes on new meaning. The electrode material not only plays the role of electron reservoir or sink but also the transformation of molecules triggered by electron transfer from or to an electrode and/or using molecules dispersed in the solution or attached to the electrode surface to accelerate and optimize an electrochemical reaction, makes capable of gaining in importance. As such, a mechanism could take place on a nanometer scale but with significant influence on the overall readout signal, making it an ideal candidate for detection element in any portable devices, especially when dedicated to molecular diagnostics in the POC mode. This Special Issue aims to focus on the application of electrochemical materials in molecular biology. We welcome submissions of research articles, comprehensive reviews, etc.

Guest Editor

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Message from the Editor-in-Chief

The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) 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, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *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.

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