Special Issue

Molecular Imprinting Technology in Electrochemical Biosensors

Message from the Guest Editor

The history of molecular imprinting technology, pioneered by G. Wulff and K. Mosbach, began more than half a century ago. Nowadays, molecularly imprinted polymers (MIPs) have been considered as attractive, simple, and seemingly general materials for selectively binding numerous analytes ranging from inorganic ions, organic pollutants, nucleic acids, proteins, cells and even tissue, with similar affinities and selectivities to those of antibodies, enzyme, aptamer, or hormone receptors. Inspired by these great successes, in recent years, such a technique has attracted considerable attention from scientists engaged in sensor development. Various chemical sensors have been successfully prepared using MIPs as receptors, followed by appropriate signal transductions including capacitance, conductometry, amperometry, voltammetry, potentiometry, quartz microbalance, and spectroscopy. In this Special Issue, we would like to focus on MIPs for electrochemical biosensing applications. We welcome the submission of original research or review articles on electrochemical biosensing applications based on MIPs.

Guest Editor

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Deadline for manuscript submissions

closed (31 August 2024)

Biosensors

an Open Access Journal by MDPI

Impact Factor 5.6
CiteScore 9.8
Indexed in PubMed

mdpi.com/si/168575

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Message from the Editor-in-Chief

Biosensors is a leading journal, devoted to fast publication of the latest achievements, technological developments and scientific research in the exciting multidisciplinary area of biosensors. Both experimental and theoretical papers are published, including all aspects of biosensor design, technology, proof of concept and application. Special issues are devoted to specific technologies and applications, and a selection of the most outstanding papers each year is recognized. Pushing the boundaries of the discipline, we invite original papers, as well as timely reviews on cutting edge fields within the subject area.

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