



Impedance-Spectroscopy-Based Biosensors

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Message from the Guest Editor

The main topic of this Special Issue is biosensors based on electrochemical as well as on electrical impedance spectroscopy. The Special Issue is dedicated to collecting research articles on the development of new platforms for on-site electrochemical biosensing transduction, within the integration of new bioreceptors, nanomaterials, and innovative bioassay formats. Furthermore, the Special Issue aims to gather original articles on miniaturized electrical impedance devices for the characterization for single cells, cell layers, and tissues. Micro- and nanoelectrodes as well as field-effect electrodes and 2D materials as transducers are in focus. In addition, reviews reflecting current hotspots, new challenges, and future perspectives of impedance-based biosensor applications and technologies are highly welcome.





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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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