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Electrical and Electro-Optical Biosensors

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Deadline for manuscript submissions: closed (15 September 2021)



Message from the Guest Editors

Dear colleagues,

Electrical and electro-optical biosensors have received much attention in recent years because of their sensitive detection, simplified procedure, and potential in the development of portable point-of-care devices. These technologies generally rely on the label-free detection of the electrical, electrochemical, and electro-optical signals derived from molecular interactions on sensor surfaces modified with biomolecules.

This Special Issue is devoted to the recent advances in electrical and electro-optical biosensors, including the design of the electrode and biosensing interfaces, as well as the detection and quantitative approaches for interpreting electrical and electro-optical signals resulting from the detection of target analytes or molecular binding events. The main topic of this special issue is related but not limited to:

- electrical biosensor
- electrochemical biosensor
- electro-optical biosensor
- dielectric biosensor
- Protein
- enzyme
- Immunoassay
- label-free detection
- real-time detection
- lab-on-a-chip devices

Specialsue

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Editor-in-Chief

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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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