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The Prospect and Application of Electrochemical Biosensors

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Deadline for manuscript submissions:
closed (31 March 2024)

Message from the Guest Editors

Electrochemical biosensors, which are the combination of electrochemistry and biosensor technology. Compared with typical chemical sensors, it can detect targets at low cost, with additional benefits such as simple operation, rapid response, and high specificity. These characteristics provide electrochemical biosensors with great prospects in the fields of environmental monitoring, disease diagnosis, and food-safety risk assessment.

In this Special Issue, we would like to collect and discuss the prospects and applications of electrochemical biosensors. We welcome reviews and research articles related (but not limited) to the following topics:

- Clinical biomarker, environmental indicator, and food component biomonitoring.
- Novel target and biological recognition element.
- Interface mechanisms of electrochemical biosensors.
- Electrode surface treatment and coating.
- Microelectrodes and interdigital electrodes.
- Sensor configuration design.
- Electrochemical detection method.
- Electrical signal measurement and treatment.
- Electrochemical biosensor application and challenge.

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Message from the Editor-in-Chief

Chemosensors is an international, scientific, open access journal on the science and technology of chemical sensors published by MDPI. All articles are released on the internet immediately following acceptance. The journal publishes reviews, regular research papers, and communications. The scope of Chemosensors includes:

New chemical sensors design

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Optical chemical sensors

Analytical methods

Environmental monitoring

Gas detectors

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