Special Issue

Multifunctional Electrochemical Biosensors: Recent Advancements and Prospects

Message from the Guest Editors

Electrochemical biosensors are attracting increasing attention due to their exceptional sensitivity, selectivity, and cost-effectiveness in detecting and quantifying a wide range of chemicals, biomolecules, and heavy metals. Recent advancements in this field have led to the development of biosensors with improved multifunctional performance, IoT integration, flexible/wearable device processability, stability, and reliability that can be applied in various fields such as clinical diagnostics, environmental monitoring, and food safety. The objective of this Special Issue is to provide a comprehensive review of the recent advances and future potential of electrochemical biosensors. The articles included in this Special Issue cover a wide range of topics, including the development of new materials and fabrication techniques for the application of biosensors in highly sensitive healthcare diagnostics, environmental monitoring, pharmaceutical analysis, and food safety. These articles highlight the promise of electrochemical biosensors as a reliable and cost-effective tool for the real-world detection and quantification of various biomolecules.

Guest Editors

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