Special Issue

Development of Novel Biosensors for Point-of-Care Detection

Message from the Guest Editors

Emerging pathogens like SARS-CoV-2 pose a grave threat to society. Rapid and accurate detection of pathogens at the point-of-care (PoC) is crucial for outbreak response. PoC diagnostic devices can also benefit human healthcare testing and low-resource settings. Recent advancements in miniaturization, multiplex analysis, and signal enhancement have improved the performance of PoC biosensors. Diagnostic devices integrating microfluidics, nanomaterials, optics, and electronics offer new possibilities for low-cost, rapid pathogen detection. This Special Issue highlights the latest developments in PoC biosensors, covering topics like portable devices, lab-on-a-chip sensors, nanomaterials-based and paper-based biosensors, and wearable biosensors.

Guest Editors

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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.

Editor-in-Chief

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