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Development of Novel Biosensors for Point-of-Care Detection

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Message from the Guest Editors

Dear Colleagues,

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.



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Special Issue



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Message from the Editor-in-Chief

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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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