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## Functional Materials for Biosensing Applications

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### Message from the Guest Editor

Dear Colleagues,

Following the COVID-19 pandemic, the imperative of early disease diagnosis has reached a paramount level of significance. Current methods for measuring disease-related biomarkers primarily fall into two categories: nucleic acid amplification methods, such as PCR, and simpler diagnostic approaches utilizing lateral flow assays (LFA). Despite their widespread use, these methods exhibit limited sensitivity, thereby complicating early disease treatment. This has led to an escalating demand for the development of multifunctional biosensors that harness various nanomaterials, offering a promising avenue for the effective diagnosis of a spectrum of diseases. Consequently, this Special Issue aspires to comprehensively explore both the fundamentals and applications of biosensors utilizing diverse nanomaterials, providing a nuanced understanding of the evolving landscape of diagnostic innovation in the post-pandemic era. As the world grapples with the challenges posed by emerging diseases, the focus on leveraging nanomaterials in biosensor technology becomes pivotal, offering a potential paradigm shift in early and accurate disease detection.



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# Special Issue



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## Message from the Editor-in-Chief

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