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Nanobiosensors: From Fabrication to Diagnostic, Therapeutic, and Theragnostic Applications

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Message from the Guest Editors

Sensors are essential components to medicine being used for diagnostics, monitoring, critical care, and public health. To fulfill the promise of ubiquitous sensor systems providing situational awareness at low cost, there must be a demonstrated benefit that is only gained through further miniaturization. For instance, in the realm of biosensors six parameters describe every sensor: selectivity, reproducibility, precision, stability, sensitivity, and linearity. The performance of biosensors can be improved by miniaturizing all their components—i.e., by approaching the nanoscale, the signal-to-noise ratio is improved, and subsequently, selectivity increases. Recent advancements in the field of nanotechnology and biosensors have facilitated the development of functionalized nanobiosensors that can provide cost-effective, reliable, and rapid diagnostic and therapeutic strategies for different diseases, such as cancer and cardiovascular disorders.



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Special Issue



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Message from the Editor-in-Chief

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