Special Issue

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

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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Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. Sensors organizes Special Issues devoted to specific sensing areas and applications each year.

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