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Editorial Board Members' Collection Series: Biosensors Based on Nanotechnology: Fabrication, Structure and Application

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Deadline for manuscript
submissions:
closed (25 April 2024)

Message from the Guest Editors

Biosensors are becoming indispensable in a variety of fields, ranging from medical care to the food and pharmacological industry and quality control in environmental, agriculture, marine and military sectors. Advances in nanotechnology have led to the development of many nanostructured materials, including carbon nanotubes, carbon nanofibers, graphene-related materials, fullerenes, metal nanoparticles, quantum dots, polymers, nanocomposites and dendrimers. Thus, nanotechnology-based biosensors based on transducer miniaturisation and/or modification by nanomaterials emerge as promising next-generation analytical devices with enhanced biocompatibility and stability, improved selectivity, sensitivity and reproducibility, and easy miniaturization and automation.

This Special Issue welcomes contributions devoted to the design, nanotechnological fabrication, characterization, and application of biosensors based on nanostructured materials, aiming to discuss the issues, approaches, and challenges of this interdisciplinary frontier between biological detection and material science.



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Special Issue



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Message from the Editor-in-Chief

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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