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Nanotechnologies for Biomedical Applications in Biosensors and Devices

Guest Editor:

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Deadline for manuscript submissions:
closed (28 February 2023)

Message from the Guest Editor

Dear Colleagues,

The evolution of healthcare technologies in the last decade has shown a strong increase in contribution from the diagnosis segment, with applications ranging from the detection of diseases to the design of therapy. This includes biosensors that are used in a range of contexts, including point of care testing, wearable devices, implantable devices and those used in centralized laboratories and hospitals. The evolving demands of biosensing in these contexts have placed increasing demands on sensitivity, measurement throughput, reliability and information content, with the nature of such information increasingly sought at the molecular level, and specifically to individual patients. Nanotechnology has a huge and compelling role to play in meeting these demands, through highly sensitive transducers, miniaturized sensor footprints, improved analyte mass transport to surface, reducing reagent consumption, and improved opportunities for multiplexed detection... For further reading, please follow the link to the Special Issue website at: https://www.mdpi.com/si/48543.

Dr. Sivashankar Krishnamoorthy
Guest Editor

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Editor-in-Chief

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Message from the Editor-in-Chief

Nanoscience and nanotechnology are exciting fields of research and development, with wide applications to electronic, optical, and magnetic devices, biology, medicine, energy, and defense. At the heart of these fields are the synthesis, characterization, modeling, and applications of new materials with lower nanometer-scale dimensions, which we call "nanomaterials". These materials can exhibit unusual mesoscopic properties and include nanoparticles, coatings and thin films, metal–organic frameworks, membranes, nano-alloys, quantum dots, self-assemblies, 2D materials such as graphene, and nanotubes. Our journal, *Nanomaterials*, has the goal of publishing the highest quality papers on all aspects of nanomaterial science to an interdisciplinary scientific audience. All of our articles are published with rigorous refereeing and open access.

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