

Special Issue

Nanotechnology-Based Diagnostics

Message from the Guest Editors

Within the past two decades, significant advancements have been accomplished in the field of nanotechnology, which have cross-fertilized developments in biomedical sciences in one way or another. With the advent of novel applications of nanotechnology, a key sub-field of nanomedicine has emerged. In this sub-field, the importance of nanotechnology-based diagnostic strategies cannot be emphasized enough, with the view of increasing neurodegenerative, oncological, and other disease pathologies, in which debilitating symptoms already surface and are irreversible in the more advanced stages. This chapter aims to offer a distillation of the key nanotechnology-based diagnostics which have emerged and are currently being researched; specifically, in the fields of oncology, neurodegeneration, and virology. For further reading, please follow the link to the Special Issue Website at: <http://www.mdpi.com/si/81986>

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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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