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Functionalized Nanomaterials for Bioelectronic and Biomedical Applications

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Message from the Guest Editors

Dear Colleagues,

NanoBioTechnology is an exceptionally diverse, multidisciplinary field uncovering new knowledge and creating innovative technologies at the interface of nanoscience, engineering, and medicine. This Special Issue will aim to highlight the global research efforts that have been focused on the development of molecular and biomolecular electronic and optical systems, aiming to establish fundamental principles for the construction of optical and electronic sensors and biosensors. These scientific activities represent a leading interdisciplinary effort to bridge chemistry, biology, materials science and medicine. The focus of the articles in this issue will demonstrate how collaborative environment encourages engineers, scientist, and clinicians to pioneer new ways to solve some of the most complex challenges in healthcare and the environment. This Special Issue welcomes all submissions from studies related to functional nanomaterials used in sustainable environment, bioelectronics and personalised medical applications.



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Special Issue



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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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