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Nanomaterials and Nanodevices for Biomedical Applications

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Deadline for manuscript submissions:
15 June 2024

Message from the Guest Editors

Dear Colleagues,

Nanotechnology has emerged as a transformative field with profound implications for the biomedical sectors. The manipulation of materials at the nanoscale has paved the way for revolutionary advancements in diagnostics, drug delivery, imaging, and therapy. This proposed Special Issue, titled "Nanomaterials and Nanodevices for Biomedical Applications", aims to provide a comprehensive platform for researchers, scientists, and engineers to present their latest discoveries, innovations, and breakthroughs in the exciting realm of nanotechnology within the biomedical context. The remarkable ability to engineer and control matter at dimensions on the order of nanometers has opened the door to a world of possibilities, allowing scientists and engineers to create innovative solutions to some of the most pressing challenges in medicine.

This Special Issue recognizes that the symbiotic relationship between nanomaterials and nanodevices has yielded unprecedented opportunities to revolutionize healthcare practices and outcomes.

Prof. Dr. Dong-Guk Paeng
Dr. Shahid Aziz
Guest Editors

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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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