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Functional Biocompatible Nanomaterials

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Deadline for manuscript submissions:
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Message from the Guest Editors

Nanoscience and nanotechnology have profoundly impacted diverse fields, with nanomaterials emerging as a cutting-edge innovation, particularly in biomedicine. Functional biocompatible nanomaterials, a promising frontier, bridge molecular precision and macroscopic functionality. These materials are revolutionizing diagnostics, therapies, and drug delivery, offering unparalleled precision and versatility. Their tailored surface properties and characteristics enable seamless interaction with biological systems, minimizing side effects and maximizing therapeutic potential. Controlled manipulation of nanoparticles, including size, shape, and surface chemistry, is opening new horizons in disease treatment, imaging, and regenerative medicine.

This Special Issue delves into the current state of functional biocompatible nanomaterials in various fields, especially medicine and dentistry. We welcome contributions from experts, medical and dental practitioners, and researchers, seeking insights and findings on a wide array of approaches and applications. Original research and comprehensive reviews are encouraged for submission to this 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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