Special Issue

Recent Advances of Nanomaterials for Tissue Engineering

Message from the Guest Editors

Nanomaterials are of great interest due to their peculiar physical and chemical properties, which make them excellent candidates for biotechnology and medical applications. Recent research has shown the possibility to design and produce nanostructured materials that can be implanted to replace or repair missing or damaged tissues in the human body, positively interacting with the host organs. Nanostructured biocompatible materials of different chemical natures, both inorganic or organic can be bio-activated by modifying their surface through functionalization with appropriate biomolecules, also exploiting the high surface-to-volume ratio typical of nanostructures. The goal of this Special Issue is to collect top-quality contributions in the field of nanostructured materials for tissue engineering applications. High-level studies focusing on the design, preparation, and structural and morphological characterization of biocompatible nanomaterials for applications in the field of tissue engineering are welcome. We are pleased to invite you to submit a contribution to this Special Issue of *Nanomaterials*, and we look forward to receiving your contributions.

Guest Editors

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Deadline for manuscript submissions

closed (10 June 2024)

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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.

Editor-in-Chief

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