Special Issue

Advances in Nanostructured Biomaterials and Their Applications

Message from the Guest Editor

The design and engineering of biomaterials at nanoscale has transformed nanostructured biomaterials with unique properties for real world applications. This special issue aims to publish original, innovative, cutting edge and ground-breaking nanostructured biomaterials research. We invite you to contribute to this special issue including but not limited to the following topics:

- Novel nanostructured biomaterials applied in 1D, 2D, 3D and/or coatings and their applications, including sensing, healthcare, biomedical research or tissue engineering.
- Nanoengineered biomaterials, including bioactive and/or biodegradable materials.
- Sustainable and cost-effective fabrication of nanostructured biomaterials, including bionanocomposites.
- Functionalisation and/or nano-surface engineering of biomaterials.
- Improvement in characterisation and clinical testing of nanostructured biomaterials.
- Interaction of nanostructured biomaterials with biological molecules such as proteins/enzymes, DNA, RNA, antibodies etc.
- Surface and interface control in nanostructured biomaterials.
- Intelligent (smart), biomimetic nanostructured biomaterials and their applications.

Guest Editor

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Deadline for manuscript submissions

closed (31 December 2021)

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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

Prof. Dr. Shirley Chiang
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