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Advanced Biocompatible Nanomaterials

Guest Editor:

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Deadline for manuscript submissions:
closed (20 January 2021)

Message from the Guest Editor

A biomaterial is a system that has been engineered to take a form able to direct the course of diagnostic or therapeutic procedures by controlling its interactions with the living body. In this wide field of research, nanostructured biomaterials able to conjugate the chemico-physical properties typical of nano-objects with biocompatibility are appealing candidates to design and realize innovative materials for applications in biomedicine. Since the interactions arising at the interface between a biomaterial and the living body are of primary importance for the biomaterial applicability, the study of the chemical and molecular structure of the material surface is of outmost importance for developing innovative and functional biomaterials. This Special Issue focuses on original papers dealing with the most important issues regarding the design, production, and structural investigation of innovative biomaterials and covering the wide range of physical, biological, and chemical sciences that underpin the design of nanostructured biomaterials and the investigation of their surfaces as well as of the interactions occurring at the biomaterial–host interface.

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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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