Special Issue

Nanomaterials for Bioapplications: Chemical Stability and Biosafety

Message from the Guest Editors

Engineered nanomaterials are being investigated due to their increasing biological applications, including drug and gene delivery, biosensors, cancer treatment, and diagnostic tools. Nanoparticles interact with biologic systems leading to their distribution, elimination, metabolism, and aggregation. In this context, the stability and biosafety of nanomaterials are important aspects that need to be monitored for their successful biomedical application. The present Special Issue of *Nanomaterials* aims to present the current state-of-the-art developments of the use of nanomaterial for biomedical applications including therapy, imaging, diagnosis, theranostics, biosensing, and tissue engineering. Moreover, we also expect to provide new insights into the understanding of the contribution of surface chemistry to the stability, dissolution behavior, cytotoxicity, biodistribution, and biodegradation. We invite authors to contribute original research articles, reviews, and short communications covering current progress in the use of nanomaterials for bioapplications.

Guest Editors

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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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