

Special Issue

Biocompatibility of Nanomaterials

Message from the Guest Editors

The safety and biocompatibility of nanomaterials is a key consideration in their development and subsequent application for biology and medicine. Comprehensive testing in appropriate cell/tissue models is a necessary step before wider applications are explored. Evaluation in relevant animal models also plays an important role for platforms and materials that ultimately aim to have a therapeutic use. This Special Issue aims to highlight studies of the biocompatibility and biosafety of nanomaterials, including both new and established materials and platforms. The effects of material size, shape, composition, functionalization and dose are of interest. Novel results concerning nanomaterial biocompatibility in cells, tissues and animal models will be welcome, as will critical review articles challenging the present knowledge and offering insights into best practices for future evaluations.

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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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