Special Issue

Biocompatibility of Nanomaterials in Medical Applications

Message from the Guest Editor

The Special Issue is focused on the evaluation of biological host response to the nanomaterials designed for specific medical applications. Biocompatibility assessment refers to inflammation, healing, and immunological reactions, such as foreign body response. The Special Issue will emphasize smart nanomaterials that include coating, controlled drug release, extracellular matrix or biological molecules inset or other strategies that may potentiate good tolerability and actively influence the healing of the host tissue. We kindly invite authors to contribute with original articles, communications or reviews on the most recent progress to assess in vitro and in vivo biocompatibility of the nanomaterials designed for medical applications.

Guest Editor

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Deadline for manuscript submissions

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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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