Special Issue

Investigation of Engineered Nanoparticle Bioactivity and Their Toxicology

Message from the Guest Editor

The bioactivity and toxicity of different nanoparticles attract the attention of many researchers due to their significance in biomedicine. According to their activity and toxicity, nanoparticles can be applied in various fields and forms such as films, gels, fibres or foams or in combination with hydrogels, ceramics, metals and polymers. Their unique chemical, mechanical, optical and biological properties enable their use as a safe material in physiological environments. The main role of biomaterials during interaction with biological systems is to evaluate, treat, heal or replace any tissue or organ. Therefore, it is very important to study the properties of nanoparticles themselves as well as the mechanism of their interaction with biological systems. The issue will be a valuable resource for a broad readership in this time of epidemy in various subfields of medicine, natural and social sciences. It will be a collection of research and review papers discussing the most recent progress in these areas.

Guest Editor

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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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