Special Issue

Toxicology and Safety/Risk Assessment of Nanomaterials

Message from the Guest Editor

The appearance and widespread distribution of nanomaterials of various forms, chemical composition, and charge determined the emergence of a new field of science named nanotoxicology. This field is necessary for improving our understanding of the physicochemical properties of nanomaterials and assessing their toxic effect on humans and the environment. Clinical and experimental studies show that the unique properties of certain nanomaterials can have a negative impact on human cells and tissues and therefore require close attention and unified approaches to assess their safety. Thus, works on assessing the toxic potential of a wide range of nanomaterials using various test systems and modern methodological approaches are relevant. Close attention should also be paid to the evaluation of the use of nanomaterials in the food industry.

Guest Editor

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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. We are proud of our increasing impact factor and ability to provide rapid decisions to authors.

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