

Special Issue

New Insights in Toxicity and Cytotoxicity of Nanomaterials

Message from the Guest Editors

The emerging field of nanoscience has provided new advantageous materials for human use, with applications for innovative nanomaterials (NMs) and diverse consumer products, such as electronics, food and feed, cosmetics or even pharmaceuticals. For innovation to keep pace with safety, new challenges arise for testing nanomaterials, in view of their biological moiety. In fact, the changes in the physicochemical properties of the NMs once in contact with cellular components, such as superficial charge or corona formation, may hamper the interpretation of current toxicity tests, requiring the modification of procedures, new methods and a novel outlook on risk assessment. This Special Issue aims to include research studies which focus on the potential adverse effects of nanomaterials and nanoparticles and articles which discuss the development of safer and sustainable materials which can provide major societal benefits.

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

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