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Advances in Nanotoxicology and Nano-Safety: Particle Toxicity and Alternative Solutions

Guest Editor:

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Deadline for manuscript submissions:
30 September 2021

Message from the Guest Editor

Dear Colleagues,

Nanotechnology has come a long way in the last two decades. Its wide diversity of applications covering areas such as industrial processes, electronics, cosmetics, agriculture, food, medicine, metallurgy and construction materials may carry risks that remain unknown. Its effects on both living beings and the environment have given rise to an increasing new factor and have led to nanotoxicology. To date, there is great uncertainty in their nanotoxicological aspects according to their specific properties. Likewise, a series of relevant factors related to the handling of nanomaterials and their subsequent staging have emerged. There are still some important and decisive parameters to be defined in the evaluation of their impact, which must be taken into account. Given the magnitude of the toxicity risks of nanomaterials, in the same way that it is important to know their impacts on living beings and the environment, it is urgent to provide alternatives to remedy their toxicity.

Dr. Luz Stella Gomez-Villalba
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.

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