Special Issue

Advances in Nanotoxicology and Nano-Safety

Message from the Guest Editor

Nanotechnology has come a long way in the last two decades. Its effects on living beings and the environment constitute a new factor that has increasingly attracted attention over the years, giving rise to nanotoxicology. To date, there is significant uncertainty of its nanotoxicology aspects regarding specific properties. Additionally, the relevant factors related to the handling of nanomaterials and their subsequent staging continually grow. Fortunately, international associations have intensified their efforts in gathering information to lessen the possible risks and improve nano-prevention knowledge. Exposure to nanomaterials is one of the primary reasons for death, even from prenatal ages. Today, the impact of new nanomaterials is unknown. Given the magnitude of the toxicity risks, it is urgent to elucidate its effects on living beings and the environment. There is, thus, an urgent need to report the advances in the evaluation of nanoengineered materials, realizing their effects at the organism and cellular level, including the consequences of their environmental exposure.

Guest Editor

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Deadline for manuscript submissions

closed (27 January 2023)

Nanomaterials

an Open Access Journal by MDPI

Impact Factor 4.3
CiteScore 9.2
Indexed in PubMed

mdpi.com/si/98519

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mdpi.com/journal/nanomaterials

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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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