Special Issue

Toxicity and Ecotoxicity of Nanomaterials

Message from the Guest Editors

In the past few decades, an enormous research effort has been made by the scientific community in the characterization of the toxic effects produced by several nanomaterials (NMs) on human and environmental health. In this Special Issue, studies dedicated at improving the robustness of toxicity data in humans and other living organisms are welcome, paying special attention to those performed under realistic exposure conditions, using highly-predictive biological models and endpoints, and/or shedding light on the relationships between NM structure and biological modes of action. The ambitious goal is to contribute by generating data useful for NM risk assessment and to invest nanotoxicology with a proactive role in the safe-by-design implementation of nanotechnologies.

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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.

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