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Toxicity and Ecotoxicity Assessment of Nanomaterials by In Vitro Models

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Deadline for manuscript submissions:
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Message from the Guest Editors

This Special Issue will cover recent advances in the in vitro development (and use) of cheap and robust assays for NM toxicology assessment, as well as the development of new models that better mimic the in vivo situation, including 3D cell and/or organoid models and long-term/low-dose exposure scenarios. Models that better mimic the environment, such as mesocosms, or systems encompassing soil and plants or soil, bacteria, and plants, and the flow and fate of NMs in these systems are also included. Finally, any in vitro study describing mechanistic insight into the toxicological and ecotoxicological mode of action of NMs, which may be either potential environmental pollutants, nanodrug systems, or nanobiomaterials, is also in the scope of this Special Issue.

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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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