



Nanoparticles in the Environment and Nanotoxicology

Guest Editor:

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Message from the Guest Editor

In recent decades, the applications of nanotechnology have dramatically increased in many areas such as cosmetics, medicine, food packaging, environment, agriculture, electronics, and others. Despite its useful applications, nanomaterials (at least one dimension <100 nm) due to their small size and unique properties, concerns have been raised about their potential environmental impact and hazard to human health. In addition, nanomaterials might potentially release into the environment, leading to potential risks to the ecosystem. Besides engineered nanomaterials, nanoplastics, the degradation products of microplastics, which might lead to widespread existence of nanoplastics in the environment and pose potential toxicity for living organisms. Until now, there are still huge gaps and unknown knowledge about the fate, behavior, and toxicity of nanoparticles in the environmental system. This Special Issue aims to gather recent novel research findings of various types of nanoparticles on the determination, detection, and degradation in the environment as well as the toxicity and risk assessment of nanoparticles.





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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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