Special Issue

Environmental Applications, Ecological Risks, and Biological Effects of Nanomaterials

Message from the Guest Editor

Thanks to the outstanding physicochemical properties of nanomaterials, they are potential candidates in environmental applications. With the ever-increasing production and application demand, especially in the environmental fields, nanomaterials are inevitably released into various environmental media, including water, soil, and air. Subsequently, not only the ecological risks, but also the potential impacts on human health require growing concerns. In particular, understanding the interactions between nanomaterials and biological interfaces, which depend on material properties and environmental conditions, is of great importance. This Special Issue aims to cover research on environmental applications, ecological risks, and biological effects of nanomaterials. Original research articles and reviews are welcome. Research areas may include (but are not limited to) the following: pollutant removal through adsorption or catalytic degradation, clear water production through membrane technology or solar evaporation, environmental monitoring, ecological risk assessment, toxicological effects on microorganisms, aquatic organisms, plants, mammalian cells, and animals.

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.

Editor-in-Chief

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