

Special Issue

Advanced Nanomaterials for Water Remediation (2nd Edition)

Message from the Guest Editors

Water is necessary for life, and access to affordable and clean water is a requirement for assuring living quality. However, it is a limited resource, with the threat of scarcity and pollution being among the most critical environmental concerns. The World Health Organisation estimates that approximately 800,000 people die yearly from contaminated water consumption. The most pressing issues result from the increasing use of persistent contaminants in anthropogenic activities, endangering aquatic organisms and humans, and the obsolescence of traditional water and wastewater treatment plants against these contaminants. The use of nanotechnology to overcome this deficiency appear to be a promising strategy. Nanomaterials, due to their unique physical–chemical properties, can be employed in water and wastewater remediation through several mechanisms such as adsorption, filtration or catalysis/photocatalysis. A thorough investigation is also vital in terms of nanomaterials' ecotoxicity for determining whether the produced materials are harmful to aquatic organisms and understanding how they affect ecosystems, food chains, and the putative bioaccumulation process.

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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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