Special Issue

Advanced Nanomaterials for Water Remediation (3rd 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 Organization estimates that approximately 800,000 people die yearly from consuming contaminated water. 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. In this regard, special attention should be given to the development of novel synthesis methods that yield non-toxic nanomaterials, minimizing the use of chemical reagents and solvents and reducing waste generation.

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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. We are proud of our increasing impact factor and ability to provide rapid decisions to authors.

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