Special Issue

Application of Nanomaterials and Nanotechnology in Water Treatment

Message from the Guest Editor

Clean water has become an increasingly precious resource. Most manufacturing and living activities consume large volumes of water and generate large volumes of polluted wastewater. Providing sufficiently safe and clean water is critical for peoples' daily life and society's development. Therefore, various technologies have been developed for water treatment aiming at sustainable development. The use of nanomaterials and nanotechnology holds the promise of producing potable water and treating polluted wastewater. The large surface areas and tunable surface chemistry allow the used nanomaterials to increase and control the solid–water interface, directly removing or destroying the undesired species such as salts and contaminants. Additionally, nanomaterials provide ideal tools for the development of novel water treatment processes and devices. This Special Issue of *Nanomaterials* will attempt to cover a wide range of water treatment where nanomaterials and nanotechnology play critical roles. The topics include, but are not limited to, nanomaterials, their composites, nanofabrication, process and device design.

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

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