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Sustainable Green Nanomaterials for Waste Water Treatment

Guest Editor:

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Deadline for manuscript submissions:
closed (30 November 2023)

Message from the Guest Editor

Dear Colleagues,

Green chemistry is a rapidly developing science which seeks to establish the fundamental mechanism of balancing pollutant behaviour in the ecosystem. The emergence of nanotechnology and nanomaterials has opened up opportunities for achieving a sustainable environment. The challenges posed by environmental issues necessitate the remediation of sustainable processes. A major development in the area of environmental chemistry for sustainable development is nanotechnology applications. Nanotechnology has the potential to contribute towards sustainable practices for a clean and green economy.

The current Special Issue have been proposed to cover a broad perspective on the current scenarios and challenges faced by green materials, the minimization of organic waste and non-organic waste for renewable fuel, and future prospects for sustainable green materials. This Special Issue is proposed to cover the pathways to achieving a green economy, the synthesis of nanomaterials using green techniques, the market potential of nanotechnology, as well as the prospects, challenges, and risks associated with the use of nanotechnology for environmental remediation.

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Editor-in-Chief

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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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