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Applications of Nanomaterials in Environmental Remediation and Pollution Control

Guest Editor:

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Deadline for manuscript submissions:
closed (20 April 2024)

Message from the Guest Editor

Nanomaterials have emerged as a revolutionary force in environmental science and technology, providing innovative solutions to pollution and degradation challenges. Escalating pollution, driven by industrialization and urbanization, demands urgent remediation. Nanomaterials, with their high surface area, reactivity, and versatility, are uniquely suited for tackling this crisis. They catalyze pollutant degradation, efficiently adsorb contaminants, and enable precise analysis. These materials also promote sustainable resource management and ecosystem restoration.

This Special Issue serves as an exclusive platform for researchers to comprehensively explore the multifaceted realm of nanomaterial applications in environmental remediation and pollution control. Encompassing a wide array of topics, it delves into critical areas such as photocatalysis for water and air purification, advanced oxidation processes (AOPs), the development of nanomaterials tailored for selective pollutant capture and analysis, and their application in enhancing both water and soil pollution control strategies. We encourage the submission of original research articles and systematic reviews.

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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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