

## Special Issue

# Nanotechnology for Pollutant Detection and Removal

### Message from the Guest Editors

Environmental pollution is a major problem facing the world. The main sources of land, water and air pollution are extensive industrialization and intensive agricultural activities. Nanomaterials have attracted a lot of interest in environmental remediation. Due to their large surface area and associated high reactivity, nanomaterials perform better than other conventional methods for environmental cleanup. They act on environmental contaminants as small structures or small-sized particles that can be modified for specific applications to provide new functions. Nanomaterials can be extremely reactive due to the large surface-area-to-volume ratio and the presence of more reactive sites. These characteristics allow for higher interaction with pollutants, leading to a rapid reduction in pollutant concentrations. The present Special Issue of *Nanomaterials* is aimed at presenting the use of nanomaterials and nanotechnology in pollutant detection and removal. We invite authors to contribute original research articles and review articles. See more information at <https://mdpi.com/si/158482>. We look forward to receiving your contributions.

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### Guest Editors

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### Deadline for manuscript submissions

closed (30 October 2023)



## Nanomaterials

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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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### Editor-in-Chief

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