



Catalysis and Adsorption of Nanomaterials in Wastewater Remediation

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Message from the Guest Editor

Dear Colleagues,

In recent years, water pollution has become a serious environmental problem. Among the various techniques used for wastewater treatment, adsorption is one of the promising treatment options for pollutant removal due to its efficiency, operational simplicity, and inexpensiveness. Another technique is photocatalysis, which has a promising future for the treatment of a variety of wastes due to its utilization of visible light to photo-degrade organic and inorganic contaminants. Nanomaterials, due to their unique properties, such as their large specific surface area, high reactivity, and selectivity, have become new materials for the removal of different pollutants from wastewater.

This Special Issue will focus on the synthesis and characterization of new types of nanomaterials and their applications as adsorbents or photocatalysts for pollutant removal from wastewater. In this Special Issue, we invite contributions of original research articles (full papers and communications), as well as review articles.

Dr. Maria-Loredana Soran
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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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