

Special Issue

Novel Nanostructured Materials and Their Applications in Wastewater Treatment

Message from the Guest Editor

In recent decades, the greatest challenge in wastewater treatment has been to reduce its negative economic and environmental implications. Nanostructured materials have many unique properties, such as a large surface area, structural anisotropy, tunable bandgap, and high carrier mobility. As a result of these properties, they have attracted increasing research interest for their application in electronics, environmental pollution prevention, and catalysis, as well as in energy storage and energy conversion. Overall, nanomaterials have the potential to meet the higher effluent quality requirements and reduce the energy consumption in wastewater treatment. This Special Issue focuses on the properties of nanostructured materials and their associated novel devices for wastewater treatment. We welcome submissions of original research-based articles and reviews related to nanostructured materials.

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.

Editor-in-Chief

Prof. Dr. Eugenia Valsami-Jones

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