Special Issue

Nanostructured Materials and Advanced Processes for Application in Water Purification

Message from the Guest Editor

Nanomaterials have been tested for water decontamination polluted by different types of pollutants, such as dyes, pharmaceuticals, pesticides, pathogens, industrial and domestic wastes, etc. Different classes of nanomaterials including mainly graphene-based nanocomposites, functionalized magnetic nanomaterials, layered double hydroxides, and nano photo- and bio-catalysts have been investigated. In this context, this Special Issue will compile recent developments of nanostructured materials with applications in water purification. The articles could be focused on (but not strictly limited to):

- Synthesis and physicochemical characterization of novel nanomaterials
- Utilization of nanomaterials by various water purification techniques, e.g., advanced oxidation processes (AOPs), membrane filtration, adsorption, etc.
- Analysis and point-by-point comparison of the current water purification methods

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

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