Special Issue

Multifunctional Nanostructures for Water Remediation

Message from the Guest Editors

Pollution associated with anthropogenic species in water, such as heavy metals, organic pollutants, and micro/nanoplastics, is becoming a serious environmental problem not only because of the important damage it causes in the environment, leading to a loss of biodiversity, but also because it may severely threaten food ecosystems and induce harmful impacts on human health. As a consequence of the large external surface and higher dispersion on the surface, nanostructured materials enable either the novel modification of adsorbents and catalysts or the integration of biological and physicochemical processes for water remediation. The multifunctional nanostructures interact with pollutants through their solid–liquid interfaces; as a consequence, the interaction and the support of nanostructured materials are crucial factors that determine the overall nanoscale behaviors. Considering the above, the present Special Issue of *Nanomaterials* aims to present the current state-of-the-art in the use of multifunctional nanostructures in water remediation. We welcome full papers, communications, and review articles emphasizing the broad scope of the topic.

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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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