Special Issue

Functional Nanostructured Adsorbents and Its Application in Wastewater

Message from the Guest Editor

The study of functional nanostructured adsorbents and their application is now one of the leading hot topics in wastewater research. As functional nanostructured adsorbents have an incredibly large surface area and unique physicochemical properties, their pollutant adsorption capability is typically high and of present interest. This Special Issue of Nanomaterials focuses on presenting the latest theoretical developments and practical applications of functional nanostructured materials in wastewater treatment. Potential topics include, but are not limited to, the following:

- Synthesis of functional nanostructured adsorbents;
- Chemical modifications of nanostructured adsorbents;
- Nano zero valent iron (nZVI) for wastewater treatment;
- Adsorptive resource recovery by nanostructured adsorbents;
- Recycling of nanostructured adsorbents in wastewater treatment;
- Adsorption behaviors of nanoplastics in wastewater.

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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