

Special Issue

Applications of Nanocomposites in the Adsorption and Degradation of Pollutants

Message from the Guest Editor

Porous nano-mineral materials are being used to improve the quality of environments due to their porous structure, high chemical stability, simple processing requirements, high chemical stability, efficient adsorption, controllable morphology, and ecofriendliness.

Synthetic or modified nano-mineral materials enable us to regulate the composition, structure, and morphology of mineral materials, optimize the performance of nano-mineral materials, and avoid the limitations of scarce natural nano-mineral reserves and their distribution. In terms of current water pollution treatment technologies, the adsorption method has low selectivity and can be applied to a wide range of target pollutants. The research interests of this Special Issue on the applications of porous nanomaterials in pollutant removal include, but are not limited to, the following: natural clay minerals; organic and inorganic modifications, including modifications with biochar; and the use of nanomaterials to remove a wide range of water pollutants (both inorganic and organic), including emerging contaminants from the environment.

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. We are proud of our increasing impact factor and ability to provide rapid decisions to authors.

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