

Special Issue

Nano-Adsorbents for the Removal of Heavy Metals and Dyes

Message from the Guest Editor

Various remediation techniques are available to prevent pollution episodes originating from effluents. Among these techniques, adsorption has attracted scientists' attention, particularly in the recent decades, with intense work being conducted in the production of cost-effective adsorbents. Sorption processes consist of the sequestration of one or more species of interest on the surface of a solid, known as a sorbent. Being a surface phenomenon, it is clear that nanosorbents can constitute the next step in the research of sorption. Nanoparticles, for which surface interactions are enhanced, owing to the large surface/volume ratio of these systems, can be considered the definitive evolution in the development of sorbents. However, the practical manipulation of nanosorbents, subsequent separation after sorption, and the possibility of the regeneration of nanosorbents are still limitations that need to be fully explored. In this Special Issue, the state of the art in nanosorbents for metal and/or dye pollution remediation will be analyzed.

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.

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