



Magnetic Nanomaterials for Environmental and Biomedical Applications

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Deadline for manuscript
submissions:

closed (1 March 2022)

Message from the Guest Editors

This Special Issue is focused on the most recent advances in the development of new magnetic nanomaterials with direct application in water treatment processes and in biomedicine. Magnetic nanomaterials have various technological applications, such as in batteries, electronics, and catalytic processes. Specifically, this Special Issue aims to present the most recent research on the design and synthesis of magnetic nanoparticles/nanocomposites for the development of new nanoadsorbents, nanocatalysts, and bionanomaterials, with particular emphasis on their applications in environmental remediation for the removal of emerging pollutants from different types of water and of hydrocarbons from waters associated with oil production processes, as well as in controlled drug delivery for the treatment of different diseases.





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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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