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Functionalized Magnetic Nanomaterials

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Deadline for manuscript submissions:
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Message from the Guest Editors

Dear Colleagues,

Magnetic nanomaterials engineered with a large variety of functional coatings have gained much interest because of their possible applications with dual-mode manipulation controlled by a magnetic field and through the appropriate design of surface properties.

Among the magnetic nanomaterials, magnetic iron oxide nanoparticles and their nanocomposites are very promising for innovative applications in nanomedicine and biotechnology, such as nanotherapeutics, multimodal imaging, targeted drug delivery, hyperthermia, analyte monitoring, and enzyme, protein, and nucleic acid separations. The surface modification of magnetic nanomaterials is an important issue for the future progress of medical and industrial applications.

In this context, the aim of this Special Issue is to publish original research papers and comprehensive reviews dealing with the most important issues concerning the synthesis, advanced properties investigations, and potential applications of functionalized magnetic nanomaterials.

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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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