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Applications and Properties of Magnetic Nanoparticles

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Deadline for manuscript submissions:
closed (5 April 2021)

Message from the Guest Editor

In this special issue, I cordially invite front-line researchers with an interdisciplinary approach to submit original articles on exploring the use of magnetic nano-objects in a broad range of applications.

For this purpose, the Issue wants to cover the new developments in the synthesis and characterization of magnetic nanoconstructs ranging from conventional metal oxides nanoparticles to novel molecule-based or hybrid multifunctional nano-objects. At the same time, this Special Issue is intended to focus on and explore the potential of these novel magnetic nanoconstructs in Nanomedicine and Biology, in energy harvesting and storage applications, in sensing applications, in pollution remediation, in data storage and several other possible applications.

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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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