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Interactions Effects in Nanoscaled Magnetic Assemblies

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Message from the Guest Editor

In the recent decades, the use of magnetic elements with nanoscale dimensions has spread from the typical fields of magnetic storage, spintronics and technological applications towards biomedical applications such as drug delivery, magnetic resonance imaging and magnetic hyperthermia, just to mention some examples.

This Special Issue of *Nanomaterials* is aimed at featuring recent advances in studies addressing the effects that the interactions mentioned above and coupling between magnetic elements of all types have on their static and dynamic magnetic properties. The selection of articles finally published in this issue should allow us to illustrate how we can control interactions so as to avoid their undesired effects in some cases and, at the same time, to show how their fine tuning can be exploited positively to discover new phenomena. Researchers working in the field of nanomagnetism spintronics and biomedical applications at the experimental or theoretical level are welcome to contribute with their recent findings in the field, submitting a review or original article.



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Special Issue



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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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