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Patterned Hybrid Magnetic Nanomaterials

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Message from the Guest Editors

Dear Colleagues,

We are launching a Special Issue in *Nanomaterials* (IF: 5.076) entitled "Patterned Hybrid Magnetic Nanomaterials". The aim is to publish original articles/reviews focused on the preparation, characterization, and study of the functional properties of patterned hybrid magnetic nanomaterials, as well as their integration into devices. These materials are appealing for 2D and 3D lithographed magnetic data storage systems, miniaturized magnetic nanoelectromechanical systems (e.g., magnetically guided micro/nano-robots), biomedical lab-on-a-chip platforms or magnetorheological fluids, amongst others.

The hybrid materials should take advantage of synergistic or complementary physical and/or chemical properties resulting from the combination of various constituents. Examples of materials to be covered are mesostructured metallic/oxide films filled with polymeric phases, magnetic nano- or microparticles embedded in a nonmagnetic matrix, lithographed nanocomposite structures, etc. Special emphasis will be placed on contributions with an interdisciplinary character, merging expertise from physics, chemistry, biomedicine and materials science fields.

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Editor-in-Chief

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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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