

Special Issue

Magnetism and Magnetic Properties of Nanomaterials

Message from the Guest Editor

Magnetic nanostructures show varied unusual magnetic behavior when compared to bulk materials, mostly due to surface or interface effects. Size limitations in one, two and three dimensions have led to several important technological developments, with a wide range of applications, such as in high-density magnetic recording and the spintronic device industry or in biomedical applications. Traditionally, assembled nanostructures consist of planar arrays of nanomagnets, although recent trends show how this can be extended to three-dimensional structures, in which more complex magnetic configurations with unconventional spin textures are possible, leading to unprecedented magnetic properties. These new objects are referred to as three-dimensional nanomagnets and the new properties as 3D nanomagnetism. In order to provide a balanced view of the current state of the discipline, this Special Issue invites contributions from leading groups in the field. You can submit your paper at the following link: <https://www.mdpi.com/si/170208>

Guest Editor

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About the Journal

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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