Special Issue

Current Research in Magnetic Nanomaterials: From Fundamentals towards Applications

Message from the Guest Editor

Magnetic nanomaterials and nanoscale systems represent some of the most widely researched topics over recent decades. This Special Issue is trying to gather a carefully selected compilation of original research papers to aid our understanding of and gain insights into magnetic properties, tailored magnetic materials, and surface functionalized nanoparticles. This issue also calls for papers addressing fundamental approaches to magnetism and spintronics, prediction of novel magnetic compounds, as well as application-specific materials such as magnets for use in extreme conditions of technological operations and nanomagnetic systems for biomedical use as drug delivery agents, hyperthermia therapy, and contrast enhancement in magnetic resonance imaging or gene sequencing, to name but a few.

Guest Editor

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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.

Editor-in-Chief

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