Special Issue

Magnetization and Magnetic Disorder at the Nanoscale

Message from the Guest Editor

With the advent of nanotechnologies, researchers' interests in their specific magnetic properties as related to the nano-dimensions has grown considerably in view of finding novel applications in nanoelectronics, spintronics, communication technologies, electromagnetic absorption and shielding, biomedicine, theranostics, sensorics, water treatment, and catalysis, to name few. This Special Issue aims to present recent advances in the synthesis and investigations of the structural and magnetic properties of nanosized magnetic materials, with an emphasis on the influence of the nanosized state on the magnetic arrangement in the volume and magnetic disorders on the nanoparticle surface. We welcome reports focusing on new results concerning the structural and magnetic properties of different types of magnetic oxides in both powder and bulk forms, or as composites and thin or thick films. The Special Issue is open to articles (reviews or original manuscripts) dealing with experimental and theoretical research regarding magnetic materials.

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.

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