Special Issue

Magnetism of Metal and Metal-Oxide Nanoparticles

Message from the Guest Editors

Magnetic properties of materials change drastically as the size decreases to the nanoscale. Understanding the new magnetic phenomena arising at the nanoscale constitutes not only an exciting field of fundamental research, but also an essential step towards the potential applications of these nanoparticles in diverse fields, such as life sciences, data storage or energy applications. This Special Issue of *Nanomaterials* is devoted to covering the recent advances on magnetic nanoparticles of metals and metal–oxide nanoparticles focused on potential biomedical applications. In this way, this issue will concern topics spanning from new preparation methods and characterization of magnetic nanoparticulate systems (e.g., magnetic fluids, nanoparticle-based architectures, bioinspired and biosynthesized magnetic nanoparticles, matrix-embedded nanoparticles) and the study of their associated magnetic phenomena (e.g., collective phenomena, relaxation processes, magnetic anisotropy), focused towards an understanding and optimized performance of the systems in biomedical uses (e.g., magnetic drug delivery, magnetic hyperthermia, magnetic particle imaging).

Guest Editors

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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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