Special Issue

Core-Shell Magnetic Nanoparticles

Message from the Guest Editor

The development of novel magnetic core-shell nanoparticles has become increasingly appealing in recent years. This research in parallel with the improvement of the synthesis and fabrication methodologies has paved the way to obtain unprecedented multifunctional core-shell nanoparticles with unique properties. These types of multiphase nanostructures can combine the different functionalities of the diverse constituents bringing about novel and enhanced properties which are resulting in innovative applications of magnetic nanoparticles. This Special Issue will be focused on recent trends in the preparation, characterization and potential applications of core-shell nanoparticles composed by magnetic materials. I invite researches from all relevant disciplines to contribute to this Special Issue of Nanomaterials.

Guest Editor

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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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