Special Issue

Multifunctional Magnetic Nanomaterials for Molecular Imaging and Therapy

Message from the Guest Editor

At present, one of the main objectives in the nanomedicine field is the development of a personalized medicine that enables an early diagnosis and individual treatment with the reduction of intake substances, thus reducing mortality and side adverse toxicity. Researchers are getting closer to this idea by synthesizing multifunctional magnetic nanomaterials in a single entity that enable the visualization and the follow-up of molecular processes at the cellular and molecular levels in living organisms with individual treatment, called theranostic as a combination of diagnosis and therapy. In this manner, in this Special Issue, we want to focus on the latest original and novel results obtained in the synthesis of magnetic nanomaterials based on inorganic and/or organic nanoparticles (iron oxide-based nanoparticles, liposomes, micelles, etc.) with potential application as magnetic resonance imaging (MRI) contrast agents and also the possibility to use as therapeutic agents.

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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