Special Issue

Magnetic Nanoparticles 2020

Message from the Guest Editor

The focus of this Special Issue involves the preparation, characterization, and applications of magnetic nanoparticles, with different geometries and functionalities, applied in biomedicine as a drug carrier, diagnosis imaging, tissue engineering, cell labelling, hyperthermia, magneto-rheological fluids, theranostic, micro- and nanochips, gene therapy, etc. Magnetic nanoparticles are potentially useful in biomedicine thanks to their response to magnetic fields. It allows local treatment in a specific site (target therapy), can be used to load and deliver sequentially different drugs combination (drug carriers) and can be easily functionalized to be biocompatible and nontoxic. Interest in magnetic nanoparticles, from its synthesis and surface functionalization strategies, and its stability in biological fluids, to the uptake by stem cells and the therapeutic efficiency has increased recently and multiple directions are ongoing in this research field. This Special Issue aims at publishing a collection of research contributions that illustrates recent achievements in all these aspects of development applied in the biomedical field.

Guest Editor

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Deadline for manuscript submissions

closed (28 February 2021)

Magnetochemistry

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.8

mdpi.com/si/39852

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mdpi.com/journal/magnetochemistry

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About the Journal

Message from the Editor-in-Chief

Magnetochemistry constitutes a multidisciplinary field where chemists and physicists not only study magnetic properties but also design and synthesize chemical compounds with desired magnetic properties. *Magnetochemistry* is inviting contributions in any field related with this area, such as theoretical models, crystal engineering, molecular magnetism, SMM, SIM, SCM, SCO, magnetic nanostructures, magnetic MOFs, magnetic recording, qubits, magneto-caloric materials, etc. Our goal is to share your contribution in a timely fashion and in a manner that will be valued by the scientific community.

Editor-in-Chief

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