

Special Issue

Advanced Magnetic Nanomaterial for Cancer Therapy and Diagnosis

Message from the Guest Editor

Magnetic nanoparticles and nanocomposites are promising highly functionalizable tools for cancer diagnosis, monitoring, and therapy. Studying magnetic nanospecies' structural features and coating procedures and stability opens up excellent prospects for multifunctional and bioinspired materials and devices. The influence of magnetic fields can be used as an exogenous stimulus to induce changes in the physical, chemical, and structural properties. Therefore, magnetic nanocomposites synthesis, conjugation strategies to apply bioinspired construction for diagnosis, and simultaneous therapy have been a feature of the last several years. New prospects in the theranostics area will lead to obtaining a promising tool for clinics. This Special Issue is focused on the most recent advances in the synthesis, characterization, and optimization of magnetic nanoparticle properties, surface coating for enhanced stability, biocompatibility, and toxicity in various areas such as diagnostics, imaging, drug-gene delivery, and therapy of cancer.

Guest Editor

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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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