



Advanced Magnetic Nanomaterial for Cancer Therapy and Diagnosis

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Deadline for manuscript
submissions:

closed (31 December 2023)

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.

