

Special Issue

Recent Advances in Biomedical Applications of Magnetic Nanomaterials

Message from the Guest Editors

Magnetic nanoparticles (MNPs) have emerged as promising candidates for a wide array of biomedical applications due to their unique responsiveness to external magnetic fields, which enables remote control and manipulation. In recent years, extensive research efforts have been dedicated to exploring the applications of magnetic nanoparticles (MNPs) in biomedical fields, including their use as contrast agents in magnetic resonance imaging (MRI), or more recently using the magnetic particle imaging technique. Additionally, MNPs have shown promise in cancer therapy through magnetic hyperthermia, where they are subjected to radiofrequency magnetic fields to induce heating for therapeutic purposes. We aim for this Special Issue, titled "Recent Advances in Biomedical Applications of Magnetic Nanomaterials", to provide a platform for researchers to share their latest experimental and theoretical findings related to the development and application of magnetic nanomaterials in the medical field, where we welcome both reviews and research papers focused on distinct aspects of medical applications of MNPs.

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Deadline for manuscript submissions

closed (28 February 2025)



Pharmaceutics

an Open Access Journal
by MDPI

Impact Factor 5.5
CiteScore 10.0
Indexed in PubMed



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