

Special Issue

Magnetic Nanomaterials for Hyperthermia-Based Therapy, Imaging, and Drug Delivery

Message from the Guest Editor

Among other nanoformulations, magnetic nanoparticles have been proven to possess numerous benefits over conventional medicines, making them valuable candidates in various fields of biomedical applications due to their ability to be remotely controlled by external magnetic fields. By either functionalizing their surface or creating hybrid nanoformulations in combination with polymers, fluorophores, liposomes, and plasmonic or silica shells, magnetic nanoparticles gain multiplexing capabilities, making them suitable for combined applications, leading to what we now call theranostic nanoparticles. The capacity of these magnetic nanomaterials to diagnose and treat medical conditions, combined with the possibilities of remotely controlling their position or triggering their activity, make them one of the most investigated classes of theranostic materials. In this Special Issue, we kindly invite authors to report both experimental and theoretical results on their recently developed magnetic nanomaterials in the medical field for imaging, diagnostics, and the treatment of diseases.

Guest Editor

Prof. Dr. Constantin Mihai Lucaciu

Department of Pharmaceutical Physics-Biophysics, Faculty of Pharmacy, "Iuliu Hatieganu" University of Medicine and Pharmacy, Pasteur 6, 400349 Cluj-Napoca, Romania

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Pharmaceutics
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
pharmaceutics@mdpi.com

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Prof. Dr. Patrick J. Sinko

Ernest Mario School of Pharmacy, Rutgers, The State University of New Jersey, William Levine Hall, Room 225C, 160 Frelinghuysen Road, Piscataway, NJ 08854-8020, USA

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