Special Issue

Novel Ferrites for Biomedical Applications

Message from the Guest Editors

Ferrites, as magnetic materials, are attractive candidates for biomedical applications for diagnosis, therapeutics, control and treatment of diseases, enhanced MRI imaging, magnetic hyperthermia cancer treatment, targeted drug and gene delivery, biolabeling, biosensing, and antimicrobial agents, and enable the development of new medical devices. Ferrite has the ability to alter physical properties in a tunable manner upon interacting with magnetic fields and specific analytes based on their intrinsic properties, morphology, spatial distribution, and conjugation. Such flexibility affords them unique potential as next-generation biomedical materials for such applications as drug delivery, imaging, sensing, diagnosis, and remediation of cancers. Keywords:

- **theranostics**
- **ferrites**
- **nanoparticles**
- **magnetic hyperthermia**
- **MRI contrast agents**

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Deadline for manuscript submissions

closed (31 March 2022)

Magnetochemistry

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 4.6

mdpi.com/si/57979

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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.

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