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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