Special Issue

Magnetic Nanomaterials for Magnetic Sensors

Message from the Guest Editors

Magnetic nanomaterials are very promising materials in both fundamental and application standpoint. This research topic “Magnetic Nanomaterials for Magnetic Sensors” aims to provide a platform for researchers to share current developments, implementations, and future perspectives in magnetic nanomaterials and its subdisciplines. The scope spans from curiosity-driven fundamental scientific research to applied sciences, including bioimaging and medical applications. In this Special Issue, original research outputs, reviews, and perspectives will be considered. Suggested areas of contributions may include but are not limited to:

- Recent advances in magnetic nanomaterials: novel synthesis, characterization, and applications
- Low and high magnetic field sensors based on magnetic nanoparticles
- Magnetism and magnetotransport phenomena
- Magneto-optical materials and devices
- Magnetic nanomaterials-based force spectroscopy such as magnetic tweezers
- Magnetic-nanoparticle-doped liquid crystals
- Application of magnetic nanomaterials in heterogeneous catalysis

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Deadline for manuscript submissions

closed (30 June 2022)

Magnetochemistry

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 4.6

mdpi.com/si/75264

Magnetochemistry
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Message from the Editor-in-Chief

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