Special Issue

Advanced Applications of Magnetic Field-Responsive Fluid

Message from the Guest Editors

Recent years have seen the development of a new class of smart materials, the so-called magnetic field-responsive fluids, which display dramatic changes in morphology when subject to an external magnetic field. Rheological characteristics and the anisotropic micro-structures of the fluid can be controlled by the direction and magnitude of the applied field.
Commonly recognized magnetic field-responsive fluids includes, but not limited to, ferrofluid, magnetorheological fluid, magnetic compound fluid, magnetic liquid crystals, magnetic biofluid etc. This special issue encourages authors to submit experimental or theoretical research on the keywords below, and works in the related fields will also be considered.

- Ferrofluid
- Magnetorheological fluid
- Magnetic compound fluid
- Magnetic liquid crystals
- Magnetic biofluid
- Soft robotics
- 3D and 4D printing
- Simulation
- Magnetic thixotropic property
- Ferromagnetic memory property

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Deadline for manuscript submissions

closed (20 July 2023)

Magnetochemistry

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 4.6

mdpi.com/si/127622

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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.

Editor-in-Chief

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