

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 microstructures 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

Guest Editors

Dr. Zhenkun Li

Dr. Yibiao Chen

Dr. Hongchao Cui

Dr. Juntian Qu

Deadline for manuscript submissions

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

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About the Journal

Message from the Editor-in-Chief

Editor-in-Chief

Prof. Dr. Carlos J. Gómez García

Department of Inorganic Chemistry, Faculty of Chemistry, University of Valencia, C/Dr. Moliner 50, 46100 Burjassot, Spain

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 16 days after submission; acceptance to publication is undertaken in 2.9 days (median values for papers published in this journal in the first half of 2025).