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Advanced Applications of Magnetic Field-Responsive Fluid

Guest Editors:

Message from the Guest Editors

Dr. Zhenkun Li

Dear Colleagues,

Dr. Yibiao Chen

Dear Colleagues,

Dr. Hongchao Cui

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

Dr. Juntian Qu

the applied field.

Deadline for manuscript submissions:

closed (20 July 2023)

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



