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Magnetic Fluids

Guest Editor:

Dr. Dmitry Borin

Institute of Mechatronic Engineering, Technische Universität Dresden, Dresden, Germany

Deadline for manuscript submissions:

closed (20 November 2021)

Message from the Guest Editor

Magnetic fluids have been at the focus of rigorous scientific studies for over half a century. Being complex systems with a set of unique physical properties controlled by a magnetic field, they attract the attention of researchers both from a fundamental and applied point of view. Recent trends in magnetic fluid research include interdisciplinary studies at the edge between biotechnology, medical applications, engineering and fundamental physics. At present, increasing attention is being paid to hybrid systems in which simple Newtonian carrier liquids are replaced by polymers, including biological media, liquid crystals, etc. Simple single-domain magnetic nanoparticles serving as the dispersed phase in classical magnetic fluids are replaced by complex clusters coated with various surfactants. Multidisperse of mixtures nanomicroparticles are also used. All this allows obtaining magnetic composites with advanced properties. New trends require novel approaches in theoretical and experimental studies of magnetic fluids. For this Special Issue, we would like to welcome original research manuscripts as well as methodological and review articles on the magnetic fluids













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Editor-in-Chief

Prof. Dr. Maryam Tabrizian

1. Department of Biomedical Engineering, Faculty of Medicine and Health Sciences, McGill University, Montreal, QC H3A 2B6, Canada

2. Faculty of Dentistry and Oral Health Sciences, McGill University, 3640 Rue University, Montreal, OC H3A 0C7, Canada

Message from the Editor-in-Chief

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