Special Issue

Rheology and Complex Fluid Flows in Microfluidics

Message from the Guest Editors

We are pleased to announce the Special Issue on the theme of "Rheology and Flows of Complex Fluids in Microfluidic Devices" to be published in *Micromachines*. Many artificial and natural fluids contain macromolecules, particles, or droplets that impart complex rheology and flow behaviour to the fluid. It is well known that the overall rheological properties of these fluids are determined by events occurring at the microscopic level, and that the conditions encountered in microfluidic devices can be particularly suitable to study such behaviour. This Special Issue seeks to showcase research papers, short communications, and topical review articles that focus on recent developments in complex fluid flows at the microscale, including polymer solutions and polymer melts, suspensions, active fluids, biological fluids, surfactant solutions, gels, and liquid crystals. We invite contributions in all areas of experimental and computational complex fluid mechanics and rheology, where the non-Newtonian character of the fluid is important in determining the characteristics of the flow at the microscale.

Guest Editors

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Deadline for manuscript submissions

closed (15 March 2020)

Micromachines

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Impact Factor 3.0
CiteScore 6.0
Indexed in PubMed

mdpi.com/si/24952

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Message from the Editor-in-Chief

You are invited to contribute research articles or comprehensive reviews for consideration and publication in *Micromachines* (ISSN 2072-666X). *Micromachines* is published in the open access format. Research articles, reviews and other contents are released on the internet immediately after acceptance. The scientific community and the general public have unlimited free access to the content as soon as it is published. As an open access journal, *Micromachines* is supported by the authors or their institutes by payment of article processing charges (APC) for accepted papers. We are pleased to welcome you as our authors.

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