

Special Issue

Microfluidic Rheometry

Message from the Guest Editor

The advent of microfluidics opened significant new routes to explore and characterise the flow of complex liquids, such as polymer solutions and biological fluids. Several microfluidic devices for the measure of rheological properties, including viscosity and longest relaxation time in both shear and extensional flows, have been introduced, somehow challenging the well-established bulk rheological techniques. Moreover, microfluidic devices can offer direct access to the behaviour of single polymer chains subjected to flow, thus providing important insights into the polymer dynamics at large. This Special Issue will highlight microfluidic techniques to measure the rheological properties of complex fluids. Microfluidic devices employed to measure rheological properties that are not generally measurable using conventional rheological techniques are of special interest.

Guest Editor

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Deadline for manuscript submissions

closed (30 June 2022)



Micromachines

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Impact Factor 3.0
CiteScore 6.0
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mdpi.com/si/74438

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