



Microfluidic Rheometry

Guest Editor:

Dr. Francesco Del Giudice

System and Process Engineering
Centre, College of Engineering,
Swansea University, Fabian Way,
Swansea SA1 8EN, UK

Deadline for manuscript
submissions:

closed (30 June 2022)

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.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Ai-Qun Liu

1. Department of Electrical and Electronic Engineering, The Hong Kong Polytechnic University, Hong Kong, China
2. School of Electrical and Electronic Engineering, Nanyang Technological University, Singapore 639798, Singapore

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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), PubMed, PMC, Ei Compendex, dblp, and other databases.

Journal Rank: JCR - Q2 (*Physics, Applied*) / CiteScore - Q2 (*Mechanical Engineering*)

Contact Us

Micromachines Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/micromachines
micromachines@mdpi.com
[X@micromach_mdpi](https://twitter.com/micromach_mdpi)