

Special Issue

Rheology and the Thermo-Mechanics of Non-Newtonian Fluids

Message from the Guest Editor

Understanding the thermo-mechanics of complex (non-linear) fluids, commonly known as non-Newtonian fluids, is important because these fluids are not only encountered in nature (for example, in mud slides and avalanches), but also in many chemical, biological, food, pharmaceutical, and personal care processing industries. These fluids include the traditional non-Newtonian fluid models, electro- or magneto-rheological fluids, granular materials, slurries, drilling fluids, polymers, blood and other biofluids, mixtures of fluids and particles, *etc.* This Special Issue of Fluids is dedicated to the recent advances in the mathematical and physical modeling of those fluids with industrial applications, especially those concerned with CFD studies.

Guest Editor

Prof. Dr. Mehrdad Massoudi

1. Department of Biomedical Engineering, Carnegie Mellon University, Pittsburgh, PA 15213-3890, USA
2. Department of Mechanical Engineering, Carnegie Mellon University, Pittsburgh, PA 15213-3890, USA

Deadline for manuscript submissions

closed (29 February 2016)



Fluids

an Open Access Journal
by MDPI

Impact Factor 1.8
CiteScore 4.0



mdpi.com/si/4817

Fluids

Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
fluids@mdpi.com

[mdpi.com/journal/
fluids](https://mdpi.com/journal/fluids)





Fluids

an Open Access Journal
by MDPI

Impact Factor 1.8
CiteScore 4.0



[mdpi.com/journal/
fluids](https://mdpi.com/journal/fluids)



About the Journal

Message from the Editor-in-Chief

Fluids (ISSN 2311-5521) is an international journal on all aspects of fluids in open access format: research articles, reviews and other contents are released on the internet immediately after acceptance. You are invited to contribute a research article or a comprehensive review for consideration and publication in *Fluids*. The scientific community and the general public have unlimited free access to the content as soon as it is published. Please consider *Fluids* as an exceptional, exciting enterprise ready to reward your trust, attention, and active participation.

Editor-in-Chief

Prof. Dr. D. Andrew S. Rees

Department of Mechanical Engineering, University of Bath, Bath BA2 7AY, UK

Author Benefits

Open Access:

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

High Visibility:

indexed within Scopus, ESCI (Web of Science), Inspec, CAPIus / SciFinder, and other databases.

Journal Rank:

CiteScore - Q2 (Mechanical Engineering)