



Multiphase Flows in Engineering Applications

Guest Editor:

Dr. Fatemeh Salehi

School of Engineering, Macquarie
University, Macquarie Park, NSW
2109, Australia

Deadline for manuscript
submissions:

closed (31 May 2022)

Message from the Guest Editor

Multiphase flows may comprise various states of matter, e.g., gas and solid in fluidisation; gas and liquid in bubble column; and gas, liquid, and solid in airlift slurry bed. They are present in nature and a wide range of engineering applications. Examples include biomass pyrolysis and gasification, liquid fuel injection systems, fire suppression systems, agricultural sprays, oil recovery, and spray drying of food products. Due to their importance in different applications, such flows have been topics of considerable interest in recent years. Various advanced numerical modelling and measurement techniques have been developed to enhance the understanding of such complex multiphysics and multiscale flows where interactions of turbulence, interface physics, phase change, and chemical reactions are important.

The purpose of this Special Issue is to collect state-of-the-art results related to the modelling and experimental studies of multiphase flows in different engineering applications in energy sector, biomedical and pharmaceutical industry, chemical process, nuclear industry, power plants, and nanofluid technologies.





fluids



an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. D. Andrew S. Rees

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

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.

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, CAPlus / SciFinder, and other databases.

Journal Rank: CiteScore - Q2 (*Mechanical Engineering*)

Contact Us

Fluids Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

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

mdpi.com/journal/fluids
fluids@mdpi.com
[X@FluidsMdpi](https://twitter.com/FluidsMdpi)