





an Open Access Journal by MDPI

Physics and Applications of Microfluidics

Guest Editor:

Dr. Goncalo Silva

Departamento de Engenharia Mecatrónica, Escola de Ciências e Tecnologia, Universidade de Évora, 7000-671 Évora, Portugal

Deadline for manuscript submissions:

30 September 2024

Message from the Guest Editor

Research on microfluidics concerns the study of geometrically constrained fluid flows inside domains of micrometric size.

Ever since its introduction, about 40 years ago, the miniaturization of typical fluidic elements, such as channels, reservoirs, or mixing/separation chambers, has attracted significant interest, enabling improvement in the performance of classical devices, such as compact heat exchangers, or the development of innovative concepts, such as the biochip.

This Special Issue seeks contributions that bring new insight into the physics of microfluidic flows. In this context, theoretical, experimental, and computational approaches are all welcome.

Keywords

- microfluidics
- multiphase flow
- rarefied flow
- nonequilibrium gas flow
- biochip
- lab-on-a-chip
- microchannels
- computational fluid dynamics
- experimental fluid dynamics











an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. D. Andrew S. ReesDepartment 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