

## Special Issue

# Experimental and Numerical Studies in Biomedical Engineering

### Message from the Guest Editors

Biomedical engineering is an interdisciplinary branch, as many of the problems health professionals are confronted with have traditionally been of interest to engineers because they involve processes that are fundamental to engineering practice. This Special Issue of *Fluids* aims to be a forum for scientists and engineers from academia and industry to present and discuss recent developments in the field of biomedical engineering. We invite papers that tackle, either numerically (Computational Fluid Dynamics studies) or experimentally, biomedical engineering problems, ranging from the fundamental understanding of fluid flows in biological systems to the design and practical application of medical devices and systems. Contributions may focus on problems associated with subjects that include (but are not limited to): hemodynamical flows, arterial wall shear stress, respiratory mechanics and gas exchange, targeted drug delivery, bio-materials, design of medical devices.

### Guest Editors

Prof. Spiros V. Paras

Department of Chemical Engineering, Aristotle University of Thessaloniki, 541 24 Thessaloniki, Greece

Dr. Athanasios G. Kanaris

Scientific Computing Department, STFC, Rutherford Appleton Laboratory, Didcot OX11 0QX, UK

### Deadline for manuscript submissions

closed (31 May 2019)



## Fluids

---

an Open Access Journal  
by MDPI

---

Impact Factor 1.8  
CiteScore 4.0



[mdpi.com/si/14017](https://mdpi.com/si/14017)

*Fluids*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[fluids@mdpi.com](mailto: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)