

# Special Issue

## Ecological Fluid Dynamics

### Message from the Guest Editor

Ecological fluid dynamics deals with organism-flow interactions in ecological contexts that impact organisms' three main tasks in life, namely, to acquire resources (food, prey, nutrients, light), to avoid adverse conditions (predators, parasites, dangers, damages), and to reproduce (mate finding, fertilization, ontogenetic transition, development, recruitment). The subject is broadly defined, concerning a variety of organisms (bacteria, protists, animals, plants), two primary natural fluid media (water and air), and a broad range of flow regimes (creeping, laminar, unsteady, wavy, vortical, and turbulent flows). This Special Issue of *Fluids* is dedicated to recent observational, experimental, theoretical, and computational contributions to this inherently multidisciplinary subject.

### Guest Editor

Dr. Houshuo Jiang

Applied Ocean Physics & Engineering Department, Woods Hole Oceanographic Institution, Woods Hole, MA 02543, USA

### Deadline for manuscript submissions

closed (20 September 2022)



## Fluids

an Open Access Journal  
by MDPI

Impact Factor 1.8  
CiteScore 3.4



[mdpi.com/si/62595](https://mdpi.com/si/62595)

*Fluids*  
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 3.4



[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)