Special Issue

CFD Applications in Environmental Engineering

Message from the Guest Editors

Computational Fluid Dynamics (CFD) is an invaluable tool that has been broadly used to test and predict the behavior of gasses, liquids, plasmas, soils, and fluid–structure interactions dealing with the sustainability and resilience of natural ecosystems and urban environments. The scope of this Special Issue includes, but is not limited to, the following topics:

- Pollution dispersion and mitigation;
- Supersonic flows in combustion and detonation;
- Wave and wind energy generation;
- Inshore and offshore winds;
- Weather forecasting;
- Aerodynamic design of vehicles;
- Percolation and filtering of water;
- CFD in extraterrestrial environments (atmospheres and seas);
- Grid based vs SPH simulations.

Guest Editors

Dr. Filiberto Hueyotl-Zahuantitla

1. Faculty of Sciences in Physics and Mathematics, Autonomous University of Chiapas, Tuxtla Gutiérrez 29050, Mexico
2. National Council of Humanities, Sciences and Technologies, Mexico City 03940, Mexico

Dr. Mario Aguirre López

Faculty of Sciences in Physics and Mathematics, Autonomous University of Chiapas, Tuxtla Gutiérrez 29050, Mexico

Deadline for manuscript submissions

30 April 2025

Fluids

an Open Access Journal by MDPI

Impact Factor 1.8
CiteScore 3.4

mdpi.com/si/216692

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

mdpi.com/journal/fluids

Fluids

an Open Access Journal by MDPI

Impact Factor 1.8
CiteScore 3.4

mdpi.com/journal/fluids

MDPI

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, CAPlus / SciFinder, and other databases.

Journal Rank:

CiteScore - Q2 (Mechanical Engineering)