Special Issue

Computational Simulation of Pollution Dispersion

Message from the Guest Editor

Many practical problems involving pollutant dispersion involve numerical simulation to quantify and assess potential hazards to the public. Recent events involving terrorist activities, accidental releases of toxic materials, groundwater contamination, and indoor air pollution are just a few of the areas where assessing pollutant dispersion is of paramount importance. Accurate modelling of pollutant dispersion within any environmental medium requires knowledge of the source terms, the exchange coefficients, the geometrical domain of interest, advection, and chemical reaction rates if warranted. Recent numerical models, along with the increased power of computing, have led to sophisticated approaches that contain a great deal more physics, and provide quite accurate solutions. While experimental measurements still provide the best assessments, there are just too many instances when such results are unattainable or very sparse. There is an even more continued need today to be able to provide quick and accurate estimates in assessing environmental consequences stemming from the spread of contaminants.

Guest Editor

Prof. Darrell W. Pepper

Department of Mechanical Engineering, University of Nevada, Las Vegas, NV 89154, USA

Deadline for manuscript submissions

closed (1 November 2018)

Fluids

an Open Access Journal by MDPI

Impact Factor 1.8
CiteScore 4.0

mdpi.com/si/14668

Fluids
Editorial Office
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 4.0

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)