Special Issue

Computational Fluid Dynamics (CFD) Simulations for Fusion Reactors

Message from the Guest Editor

In this framework, it will be critical to develop computational tools including the most advanced scientific knowledge and, at the same time, compliant with industry-standard software quality criteria. Such a process is currently starting. We hope that this Special Issue will help to bring together experiences and points of view on the development of CFD software for the upcoming generation of fusion devices, and to stimulate constructive discussion and collaboration among researchers in the field. The issue will focus on the following topics:

- Turbulence models in CFD codes for fusion applications;
- Software quality assurance in CFD codes in the fusion community;
- Validation of fusion computational models and benchmark with experimental data;
- Application of artificial intelligence techniques in connection with CFD software;
- Inter-relation with non-standard CFD techniques (Monte Carlo, particle in cell, gyro-kinetic, etc.);
- Prediction of a fusion reactor environment: what can be done and what is still missing.

Guest Editor

Prof. Fabio Subba
Polytechnic University of Turin, 10129 Turin, Italy

Deadline for manuscript submissions

closed (15 December 2022)

Processes

an Open Access Journal by MDPI

Impact Factor 2.8
CiteScore 5.5

mdpi.com/si/79861

Processes
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
processes@mdpi.com

mdpi.com/journal/processes

Processes

an Open Access Journal by MDPI

Impact Factor 2.8
CiteScore 5.5

mdpi.com/journal/processes

About the Journal

Message from the Editor-in-Chief

You are invited to contribute either a research article or a comprehensive review for consideration and publication in *Processes* (ISSN 2227-9717). *Processes* is published in open access format – research articles, reviews, and other content are released on the internet immediately after acceptance. The scientific community and the general public have unlimited, free access to the content. As an open access journal, *Processes* is supported by the authors and their institutes through the payment of article processing charges (APCs) for accepted papers. We would be pleased to welcome you as one of our authors.

Editor-in-Chief

Prof. Dr. Giancarlo Cravotto
Department of Drug Science and Technology, University of Turin, Via P. Giuria 9, 10125 Turin, Italy

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, Inspec, AGRIS, and other databases.

Journal Rank:

CiteScore - Q2 (Chemical Engineering (miscellaneous))