

Special Issue

Transport Processes in Single- and Multi-Phase Flow Systems

Message from the Guest Editors

- Transport processes that involve the transfer of mass, momentum and energy are fundamental to a variety of industrial systems and natural phenomena. These processes can occur with or without chemical reactions, and their behavior is influenced by the phase structure of the system. In single-phase transport systems, the processes are typically governed by diffusion, turbulence and heat transfer, etc.; however, in multiphase systems, such as particle laden flow or gas–liquid mixtures, interactions between the phases complicate transport and require the phase boundaries and the interphase exchanges to be considered. The introduction of chemical reactions further complicates these processes as they influence concentration gradients, the temperature field and properties of the fluid.
- This Special Issue, entitled “Transport Processes in Single- and Multi-Phase Flow Systems”, aims to collect novel research contributions that present experimental investigations, model transport processes, or provide comprehensive reviews that suggest research directions and reliable benchmarks for further investigations within this field.

Guest Editors

Dr. Aleksandar Miličević

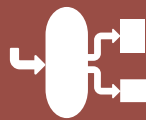
Department of Thermal Engineering and Energy, “VINČA” Institute of Nuclear Sciences–National, Institute of the Republic of Serbia, University of Belgrade, Belgrade, Serbia

Dr. Nenad Crnomarković

Department of Thermal Engineering and Energy, “VINČA” Institute of Nuclear Sciences–National, Institute of the Republic of Serbia, University of Belgrade, Belgrade, Serbia

Deadline for manuscript submissions

20 October 2026



Processes

an Open Access Journal
by MDPI

Impact Factor 2.8
CiteScore 5.5



mdpi.com/si/225526

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

[mdpi.com/journal/
processes](https://mdpi.com/journal/processes)





Processes

an Open Access Journal
by MDPI

Impact Factor 2.8
CiteScore 5.5



[mdpi.com/journal/
processes](https://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))