

## Special Issue

# Mathematical Modeling and Numerical Research of Heat Transfer in Heterogeneous Flows

### Message from the Guest Editors

This Special Issue “Mathematical Modeling and Numerical Research of Heat Transfer in Heterogeneous Flows” aims to collect outstanding research and comprehensive coverage of all aspects related to mathematical modeling and numerical research of heat transfer, as well as the results obtained in heterogeneous flows. Topics include, but not are limited to:

- Heat and mass transfer during chemical transformations;
- Two-phase flows;
- Dispersed flows and porous media;
- Intensification of heat transfer;
- Radiation and complex heat transfer.

Dr. Fedorov Ruslan Vladimirovich

Dr. Karpukhina Tamara Vladimirovna

---

### Guest Editors

Dr. Ruslan Vladimirovich Fedorov

Faculty of Energy, Department of Heat and Fuel Energy, Ulyanovsk State Technical University, 432027 Ulyanovsk, Russia

Dr. Tamara Vladimirovna Karpukhina

Faculty of Energy, Department of Heat and Fuel Energy, Ulyanovsk State Technical University, 432027 Ulyanovsk, Russia

---

### Deadline for manuscript submissions

closed (28 February 2022)



## Processes

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.8  
CiteScore 5.5



[mdpi.com/si/62257](https://mdpi.com/si/62257)

*Processes*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[processes@mdpi.com](mailto: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))