



## Enhancement of Heat Transfer and Fluid Flow

Guest Editors:

**Dr. Paolo Blecich**

Faculty of Engineering, University  
of Rijeka, 51000 Rijeka, Croatia  
paolo.blecich@riteh.hr

**Prof. Dr. Tomislav Mrakovčić**

Faculty of Engineering, University  
of Rijeka, 51000 Rijeka, Croatia  
tomislav.mrakovcic@riteh.hr

Deadline for manuscript  
submissions:

**31 December 2021**

### Message from the Guest Editors

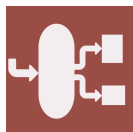
This topic encompasses enhanced heat transfer and fluid flow in natural and forced convection of liquids and gases, conduction and radiation heat transfer as well as boiling and condensation.

A variety of enhancement techniques for heat transfer and fluid flow are being researched to improve the thermal and hydraulic performance of heat exchangers, heat pumps, turbomachinery, HVAC&R components, renewable energy systems, internal combustion engines, and energy conversion processes.

These enhancement techniques include but are not limited to improved geometries and shapes, extended surfaces, active and passive fluid flow control, microscale and nanoscale heat transfer and fluid flow, nanofluids, and multiphase flow.

This Special Issue is open for original research articles that use experimental, theoretical, or computational approaches to the study of heat transfer and fluid flow enhancement. Review articles about the latest developments and research efforts in this field are also welcome.





# *processes*



an Open Access Journal by MDPI

## Editor-in-Chief

### **Prof. Dr. Giancarlo Cravotto**

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

## Message from the Editor-in-Chief

*Processes* (ISSN 2227-9717) provides an advanced forum for process/system-related research in chemistry, biology, material, energy, environment, food, pharmaceutical, manufacturing and allied engineering fields. The journal publishes regular research papers, communications, letters, short notes and reviews. Our aim is to encourage researchers to publish their experimental, theoretical and computational results in as much detail as necessary. There is no restriction on paper length or number of figures and tables.

## 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)**, **CAPlus / SciFinder**, **Inspec**, and many **other databases**.

**Rapid Publication:** manuscripts are peer-reviewed and a first decision provided to authors approximately 11.6 days after submission; acceptance to publication is undertaken in 3.4 days (median values for papers published in this journal in the first half of 2021).

## Contact Us

---

*Processes*  
MDPI, St. Alban-Anlage 66  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
Fax: +41 61 302 89 18  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/processes](http://mdpi.com/journal/processes)  
[processes@mdpi.com](mailto:processes@mdpi.com)  
[@Processes\\_MDPI](https://twitter.com/Processes_MDPI)