

Special Issue

Advanced Heat Transfer Technologies and Systematic Applications in Water and Energy Recovery

Message from the Guest Editors

This Special Issue is organized to provide a forum for cutting-edge studies on advanced heat transfer technologies and systematic applications for integrated water–energy–carbon management. High-quality original research articles, reviews, and perspectives are welcomed. Topics of interest include, but are not limited to, the following:

- Waste heat recovery technologies, system integration, assessment, and optimization;
- Water recovery techniques in energy systems;
- Carbon capture, utilization, and storage in energy systems;
- Advanced and emerging technologies in the energy field, such as machine learning and digital twins, and their applications for integrated water–energy–carbon management.

Guest Editors

Dr. Huimin Wei

Dr. Hemin Hu

Dr. Yang Sun

Deadline for manuscript submissions

31 October 2025



Processes

an Open Access Journal
by MDPI

Impact Factor 2.8
CiteScore 5.5



mdpi.com/si/229622

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:

JCR - Q2 (Engineering, Chemical) / CiteScore - Q2 (Chemical Engineering (miscellaneous))