

Special Issue

Research on Design, Simulation, and Evaluation of Energy Saving in Heat Exchangers

Message from the Guest Editors

Heat exchangers have been widely used in several industries, such as those related to chemicals, petroleum refining, and power generation. The types, dimensions, and geometries of tubes and baffles, as well as the fluid properties within the heat exchanger, have a critical influence on the performance and energy savings of the heat exchangers. The design and simulation of heat exchangers using various tools (e.g., ANSYS and Aspen) may assist in the development of novel and efficient heat exchangers by considering the heat transfer coefficients, heat load, material of construction, and its dimensions. For this Special Issue, we invite scholars, engineers, and scientists to submit manuscripts related to the “Research on Design, Simulation, and Evaluation of Energy Saving in Heat Exchangers”.

Guest Editors

Dr. Xuejun Qian

Great Lakes Bioenergy Research Center, University of Wisconsin–Madison, Madison, WI 53726, USA

Dr. Hussein A. Mohammed

Mechanical Engineering Department, King Fahd University of Petroleum & Minerals (KFUPM), Dhahran 31261, Saudi Arabi

Deadline for manuscript submissions

15 September 2025



Processes

an Open Access Journal
by MDPI

Impact Factor 2.8
CiteScore 5.5



mdpi.com/si/206571

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))