



Research and Development in Heat and Mass Transfer and Refrigeration Systems

Guest Editors:

Prof. Dr. Alvaro Ochoa

Federal Institute of Pernambuco-
IFPE, Recife, Brazil

**Dr. Gustavo De Novaes Pires
Leite**

DACS, DACT, CACSEM, CACTR,
IFPE-Federal Institute of
Education, Science, and
Technology of Pernambuco,
Campus Recife, Recife, Brazil

**Dr. José Ângelo Peixoto Da
Costa**

DACS, DACT, CACSEM, CACTM,
IFPE-Federal Institute of
Education, Science, and
Technology of Pernambuco,
Campus Recife, Recife, Brazil

Deadline for manuscript
submissions:

15 December 2024

Message from the Guest Editors

This Special Issue, entitled “Research and Development in Heat and Mass Transfer and Refrigeration Systems,” invites high-quality studies which focus on the latest technological advances in refrigeration systems, the optimization of refrigeration components, and sustainable applications. Topics include, but are not limited to:

- Heat and mass transfer studies in condensers, generators, evaporators, and absorbers;
- Control system for vapor compression systems;
- Innovative compressor technologies
Photovoltaic/thermal solar cooling applications;
- Properties of new refrigerants, working mixtures for absorption refrigeration systems;
- Energy, exergetic, and exergoeconomic analyses directed to refrigeration systems integrated into polygeneration plants;
- Development of new concepts for refrigeration systems; development and optimization of heat exchangers.





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), **Ei Compendex**, **Inspecc**, **AGRIS**, and **other databases**.

Journal Rank: JCR - Q2 (*Engineering, Chemical*) / CiteScore - Q2 (*Chemical Engineering (miscellaneous)*)

Contact Us

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

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/processes
processes@mdpi.com
[X@Processes_MDPI](https://twitter.com/Processes_MDPI)