

## Special Issue

# Advances in Heat Transfer and Thermal Energy Storage Systems

### Message from the Guest Editors

Different research fields are studying energy, its transformation, optimisation, and storage due to its social impact worldwide. The energy storage technology for different applications should be selected according to the capacity, power and efficiency, storage period, charge and discharge time, lifetime, and cost. This Special Issue, focusing on energy storage, includes all kinds of studies where the main aim is to store energy in off-peak times and use it during peak times, highlighting new knowledge on modeling, simulation, design, and optimisation.

The fields of interest include, but are not limited to, the following:

- Thermal energy storage, mechanical energy storage, chemical energy storage, electric energy storage, or electrochemical energy storage;
- Fuel cells;
- Management of energy during contingencies;
- Modelling and life cycle analysis of energy devices;
- Instrumentation for assessment of devices for energy storage;
- Material transformation to increase energy density;
- Design and operation of energy grids with energy storage;
- Development of prototypes for rural areas.

---

### Guest Editors

Prof. Dr. Armando Huicochea Rodríguez

Prof. Dr. José Alfredo Hernández Pérez

Prof. Dr. David Juárez Romero

---

### Deadline for manuscript submissions

15 May 2026



## Processes

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.8  
CiteScore 5.5



[mdpi.com/si/227870](https://mdpi.com/si/227870)

*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))