Special Issue

Modeling and Optimization in Thermal Process Simulation

Message from the Guest Editors

The advancement of thermal process simulation has become a cornerstone in various industries, where optimizing energy efficiency and minimizing environmental impact are crucial objectives. This Special Issue on "Modeling and Optimization in Thermal Process Simulation" seeks high-quality research contributions focusing on the latest advancements and methodologies in this domain. We invite submissions that explore innovative modeling techniques, optimization strategies, and their applications in thermal processes. Topics include, but are not limited to, the following:

- Computational fluid dynamics (CFD) in thermal process simulation;
- Optimization algorithms for thermal system design;
- Thermal energy storage and management;
- Modeling of fluids and heat transfer in complex systems;
- Energy efficiency in industrial thermal processes;
- Simulation of thermal processes in renewable energy systems;
- Advanced materials and their thermal properties in simulation;
- Integration of artificial intelligence in thermal process optimization;
- Case studies of thermal process optimization in real-world applications.

Guest Editors

Dr. Yunesky Masip

Dr. Guillermo Vilalta-Alonso

Dr. Lourival Jorge Mendes Neto

Deadline for manuscript submissions

30 April 2026

Processes

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))