

Special Issue

The Process Modeling, Optimization, and Control of Chemical Reaction Engineering

Message from the Guest Editors

One of the greatest problems in today's society is energy production; a greater number of people creates a greater energy demand. Energy production must be accompanied by appropriate modeling in order to avoid both energy and economic losses. By implementing optimal process control, the maximum yield of the reaction can be obtained with the minimum investment of resources. Within engineering, modeling, control, and process optimization provide key opportunities to develop the process phase known as "continuous improvement". I am pleased to invite you to contribute to this Special Issue. Topics include, but are not limited to:

- Energy production in power plants;
- Chemical looping combustion and their derivations (CLC, CLR, CLG, etc.);
- Renewable energy systems;
- Accoupled systems to reduce energy losses to the atmosphere;
- Evaluations of several scenarios of global warming caused by the use of fossil fuels;
- Modelling and optimization of energy efficiency in residential and industrial applications;
- Implementing control of chemical processes;
- Modelling of resource distribution in the population.

Guest Editors

Prof. Dr. Fabricio Napoles-Rivera

Faculty of Chemical Engineering, Universidad Michoacana de San Nicolás de Hidalgo, Calle de Santiago Tapia 403, Centro, Morelia 58000, Michoacán, Mexico

Dr. Luis Fernando Lira-Barragán

Faculty of Chemical Engineering, Universidad Michoacana de San Nicolás de Hidalgo, Calle de Santiago Tapia 403, Centro, Morelia 58000, Michoacán, Mexico

Deadline for manuscript submissions

closed (15 December 2024)



Processes

an Open Access Journal
by MDPI

Impact Factor 2.8
CiteScore 5.5



mdpi.com/si/191868

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))