



Synergies in Combined Development of Processes and Models

Guest Editors:

Prof. Dr. Jose Díaz

Energy Department, University of
Oviedo. c/ Wifredo Ricart, 33204
Gijón, Spain

**Prof. Dr. Francisco Javier
Fernández García**

Energy Department, University of
Oviedo. c/ Wifredo Ricart, 33204
Gijón, Spain

Prof. Dr. Ignacio Alvarez

Department of Electrical
Engineering, University of Oviedo,
Campus de Viesques s/n, 33204
Gijón, Spain

Deadline for manuscript
submissions:

closed (15 March 2022)

Message from the Guest Editors

This Special Issue on “Synergies in the Combined Development of Processes and Models” aims to gather novel and relevant research on synergetic advances in processes and modeling in order to achieve more efficient use of materials and energy, as well as reduced emissions. Contributions may pertain to any aspect of the process engineering field: equipment and facilities, operating procedures, measurement systems, materials, energies, etc., in connection with mathematical modeling, for a better process understanding, optimization, and control. Topics include but are not limited to the following:

- A sensitivity analysis of processes, models, and meta-models;
- The combined development of sensors and models for improved process efficiency;
- Hybrid, multivariate, data-driven, adaptive models with long-term stability;
- Simulation in process design, process understanding, and process optimization;
- Advanced human-machine interfaces and simulators;
- Success cases of the combined development of processes and models in the industry;
- The assessment of synergies between the existing process and advanced modeling techniques.





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

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.

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

Contact Us

Processes Editorial Office
MDPI, Grosspeteranlage 5
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)