

## Special Issue

# Simulation and Measurement of Flows in Chemical Process Engineering—Trends, Insights and Applications

### Message from the Guest Editors

Both simulation and measurement technology have shown great developments and progress on their own, but in combination, especially, there are many synergies and connecting points. These topics will be explored in this Special Issue. With this field, multiple aspects of modern engineering and sustainable chemical processes are addressed. Innovative flow simulations and up-to-date flow measurement technologies deliver chemical process optimization, improvements in mixing, savings of large amounts of thermal and electrical energy, minimization of resource and educt consumption as well as undesirable secondary products and therefore environmental impact, CO<sub>2</sub> footprint, maximization of selectivities and yields, process safety, as well as economic efficiency and competitiveness of chemical products. This is precisely why the topics of this Special Issue are so important in regard to widespread chemical, mixing, and process engineering operations. This contribution shall present new trends and insights in the application of flow simulations and flow measurement technology in chemical process engineering.

---

### Guest Editors

Prof. Dr. Heyko Jürgen Schultz

Faculty of Chemistry-Chemical Engineering, University of Applied Sciences Niederrhein, 47798 Krefeld, Germany

Prof. Dr. Maurizio Barbato

Innovative Technologies Department, SUPSI, East Campus, Via la Santa 1, CH-6962 Lugano, Switzerland

---

### Deadline for manuscript submissions

30 April 2025



## Processes

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.8  
CiteScore 5.1



[mdpi.com/si/190834](https://mdpi.com/si/190834)

*Processes*

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 5.1



[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:

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