



Multiphase Reaction Process Design and Optimization

Guest Editors:

Prof. Dr. Erik von Harbou

Laboratory of Reaction and Fluid
Process Engineering, TU
Kaiserslautern, P.O. Box 3049,
67653 Kaiserslautern, Germany

Prof. Dr. Michael Schlüter

TU Hamburg, Institute of
Multiphase Flow, Eissendorfer
Str. 38, 21073 Hamburg, Germany

Dr. Maïke Baltussen

Department of Chemical
Engineering and Chemistry,
Eindhoven University of
Technology, P.O. Box 513, 5600
MB Eindhoven, The Netherlands

Message from the Guest Editors

This Special Issue on “Multiphase Reaction Process Design and Optimization” seeks high-quality works focusing on the latest novel advances in the design and optimization of multiphase reactor processes. Topics include, but are not limited to:

- New measurement techniques to investigate multiphase phenomena in reactors;
- Investigation of reaction kinetics and heat and mass transfer in multiphase systems;
- New model approaches to describe multiphase reactors, including both local phenomena such as the flow of dispersed phases and the large simulation of multiphase reactor processes;
- Application of advance data science such as machine learning to investigate the behavior of multiphase reactors.

Deadline for manuscript
submissions:

closed (15 May 2024)





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

Processes (ISSN 2227-9717) provides an advanced forum for process/system-related research in chemistry, biology, material, energy, environment, food, pharmaceutical, manufacturing and allied engineering fields. The journal publishes regular research papers, communications, letters, short notes and reviews. Our aim is to encourage researchers to publish their experimental, theoretical and computational results in as much detail as necessary. There is no restriction on paper length or number of figures and tables.

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, St. Alban-Anlage 66
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)