

## Computational Modeling of Multiphase Flow (II)

Guest Editors:

**Dr. Md. Shakhaoath Khan**

Department of Chemical  
Engineering, Monash University,  
Clayton 3800, Australia

**Dr. S M Arifuzzaman**

School of Engineering, Design  
and Built Environment, Western  
Sydney University, Penrith, NSW  
2751, Australia

### Message from the Guest Editors

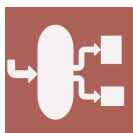
This Special Issue, entitled “Computational Modelling of Multiphase Flow”, seeks high-quality works focusing on multiphase process modelling and applications in the mineral and metallurgical industries using advanced computational modelling techniques, such as Computational Fluid Dynamics (CFD), Discrete Particle Simulation (DPM), Direct Numerical Simulation (DNS), the Discrete Element Method (DEM), the Lattice Boltzmann Method (LBM), CFD–DEM, and Graphical Processing Unit (GPU)-based DEM. The scope of this Special Issue includes, but is not limited to:

Deadline for manuscript  
submissions:

**closed (20 February 2023)**

- Particle–particle, particle–liquid, and gas–liquid–particle interactions/flows;
- Particle-scale modelling of particle–fluid flow coupled with heat and mass transfer;
- Rheological properties of particles and techniques for process simulation;
- Metallurgical processes;
- Combustion, pyrolysis, and gasification of biomass;
- Micro- and macro-dynamic analysis and nanotechnology;
- Particle flow, dispersion, and segregation;
- Applications of particle technology;
- Flows in porous media, granular flows, and other flows.





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:** 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](http://www.mdpi.com)

[mdpi.com/journal/processes](http://mdpi.com/journal/processes)  
[processes@mdpi.com](mailto:processes@mdpi.com)  
[X@Processes\\_MDPI](https://twitter.com/Processes_MDPI)