

## Special Issue

# Digital Research and Development of Materials and Processes

### Message from the Guest Editors

Digital research and development technology has become an important tool for the design of materials and processes, and it can significantly reduce the time and costs of research and discovery compared with the traditional trial and error method. It combines the advanced idea of integrated computational materials engineering (ICME) and material genome initiative (MGI), and applies those digital technologies into material and process research, e.g., ICME platform, multiscale modelling, material database, machine learning, artificial intelligence (AI), 3D printing, high-throughput experiment, etc. These digital research and development approaches could enable an improved understanding and prediction of the microstructure, mechanical properties and service behavior of materials. This Special Issue, entitled “Digital Research and Development of Materials and Processes”, aims to collect the most recent research on digital technologies applied in the design of materials and processes, and it welcomes original research papers, reviews, and case studies on topics including

---

### Guest Editors

Dr. Wei Lv

Prof. Dr. Wanqiang Liu

Dr. Li Yang

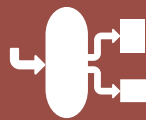
Dr. Weisen Zheng

Dr. Feng Wang

---

### Deadline for manuscript submissions

closed (31 January 2025)



## Processes

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.8  
CiteScore 5.1



[mdpi.com/si/181863](https://mdpi.com/si/181863)

*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))