



processes

an Open Access Journal by MDPI



Digital Research and Development of Materials and Processes

Guest Editors:

Dr. Wei Lv

Prof. Dr. Wanqiang Liu

Dr. Li Yang

Dr. Weisen Zheng

Dr. Feng Wang

Deadline for manuscript
submissions:

31 January 2025

Message from the Guest Editors

Dear Colleagues,

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



mdpi.com/si/181863

Special Issue



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)