

Special Issue

Digital Twins for Sustainable Industrial Processes

Message from the Guest Editors

This Special Issue on “Digital Twins for Sustainable Industrial Processes” seeks high-quality contributions that explore the development, application, and impact of Digital Twins in promoting sustainable industrial practices. Topics include, but are not limited to, the following:

- The development of Digital Twins for the real-time monitoring and optimization of industrial processes;
- Methodologies for integrating Digital Twins with sustainability assessments, such as life cycle assessment (LCA) or life cycle sustainability assessment (LCSA);
- Applications of Digital Twins to reduce resource consumption and emissions across industries;
- Case studies demonstrating the deployment of Digital Twins in energy-intensive sectors;
- Innovations in sensor integration, data acquisition, and machine learning for Digital Twin implementation;
- Simulation and modeling techniques to support Digital Twin functionalities;
- Role of Digital Twins in achieving circular economy goals;
- Interdisciplinary approaches combining Digital Twins with IoT, Blockchain, or Artificial Intelligence for sustainable industrial applications.

Guest Editors

Dr. Karoline Figueiredo

Dr. Ana Evangelista

Dr. Arti M. Siddhpura

Deadline for manuscript submissions

20 November 2025



Processes

an Open Access Journal
by MDPI

Impact Factor 2.8
CiteScore 5.5



mdpi.com/si/234906

Processes
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
processes@mdpi.com

[mdpi.com/journal/
processes](https://mdpi.com/journal/processes)





Processes

an Open Access Journal
by MDPI

Impact Factor 2.8
CiteScore 5.5



[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:

CiteScore - Q2 (Chemical Engineering (miscellaneous))