Special Issue

Machine Learning Models for Sustainable Composite Materials

Message from the Guest Editors

This Special Issue welcomes original research articles that advance the state of the art in data-driven modeling of sustainable composites. We invite papers related, but not limited to, the following research areas:

- Numerical simulation of composite structures.
- Predictive and statistical modeling of composites.
- Sustainability of concrete.
- Reinforced concrete structures.
- Structural retrofitting with fiber-reinforced composites.
- Dynamic response of composites under impact loading.
- Composites in armor design.
- Lightweight design with composites.
- Optimization techniques and their applications to composites.
- Modeling and simulation of laminated composites.
- Buckling and dynamic response of thin-walled structures.
- Composites made of natural fibers.
- Analysis of fiber–matrix interface and bond strength.
- Computational modeling of fatigue life and fracture toughness.
- Behavior of composites under thermal stresses.
- Composites in energy-efficient building design.

This Special Issue also welcomes experimental research papers, as machine learning models heavily rely on experimental data.

Guest Editors

Dr. Celal Cakiroglu
Prof. Dr. Zong Woo Geem
Prof. Dr. Gebrail Bekdaş

Deadline for manuscript submissions

31 August 2026

Processes

an Open Access Journal by MDPI

Impact Factor 2.8
CiteScore 5.5

mdpi.com/si/249246

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

mdpi.com/journal/processes

Processes

an Open Access Journal by MDPI

Impact Factor 2.8
CiteScore 5.5

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))

MDPI