

## 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.

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### Guest Editors

Dr. Celal Cakiroglu

Prof. Dr. Zong Woo Geem

Prof. Dr. Gebrail Bekdas

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### Deadline for manuscript submissions

28 February 2026



## Processes

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## 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.

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