

## Special Issue

# Dynamic Modelling and Simulation of Wind Energy Conversion Systems

### Message from the Guest Editors

We are pleased to invite you to publish your latest research results in this Special Issue titled “Dynamic Modelling and Simulation of Wind Energy Conversion Systems”. This Special Issue seeks to showcase cutting-edge research and upcoming trends in wind turbine technology, with a special focus on the knowledge development of their dynamic behaviour. We welcome submissions on a wide range of topics, including (but not limited to) the following:

- Innovative design and dynamic optimization: advancements in wind turbine structures, materials, and configurations to improve performance and efficiency.
- Dynamic modeling and numerical simulation: research studies using advanced software tools to predict and analyze wind turbine behavior are highly encouraged.
- Intelligent control: smart control systems that optimize energy capture and turbine operation.
- Reliability and maintenance: research on improving wind turbine reliability and developing efficient maintenance strategies is encouraged.
- Wind energy conversion efficiency: this focuses on maximizing the amount of electricity generated from wind resources.

---

### Guest Editors

Prof. Dr. Mircea Neagoe

Renewable Energy Systems and Recycling R&D Centre, Faculty of Product Design and Environment, Transilvania University of Brasov, 500036 Brasov, Romania

Prof. Dr. Radu Săulescu

Design of Mechanical Elements and Systems R&D Centre, Transilvania University of Brasov, 500036 Brasov, Romania

---

### Deadline for manuscript submissions

closed (20 June 2025)



## Processes

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.8  
CiteScore 5.5



[mdpi.com/si/200954](https://mdpi.com/si/200954)

*Processes*  
Editorial Office  
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 5.5



[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))