

## Special Issue

# The Role of Renewable Energy Systems in the Modern Societies

### Message from the Guest Editors

The purpose of this Special Issue is to scrutinize recent technological innovations and improvements, energy policies, decarbonization in a climate-friendly scenario, CO2 removal technologies, and the application of power electronics and artificial intelligence (AI) in the renewable energy sector. Moreover, studies related to the technoeconomic analysis of hybrid energy systems, smart grids, energy forecasting, and energy trading are of interest. We invite researchers to submit their original and unique articles as well as their critical review papers. Topics include, but are not limited to, the following areas:

- Renewable energy sources
- Biomass and biofuel
- Hybrid renewable energy systems
- Power systems
- Energy management
- Energy saving devices
- Energy policy
- Robotic applications in renewable energy systems
- Electric vehicles
- Power electronics in renewable energy systems
- Energy forecasting
- Atmospheric pollution
- Energy in buildings
- Artificial intelligence in energy systems

---

### Guest Editors

Dr. Shahabaldin Rezania

Department of Environment and Energy, Sejong University, Seoul 05006, Republic of Korea

Dr. Kamyar Mehranzamir

Department of Electrical and Electronic Engineering, University of Nottingham Malaysia (UNM), Selangor, Malaysia

---

### Deadline for manuscript submissions

closed (10 January 2024)



## Processes

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.8  
CiteScore 5.5



[mdpi.com/si/95527](https://mdpi.com/si/95527)

*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))