

## Special Issue

# Toward Net-Zero Industry: Sustainable Processes, Renewable Energy Solutions, and Innovative Thermal Management

### Message from the Guest Editors

This Special Issue serves as an interdisciplinary forum for viable, scalable solutions to accelerate the industrial transition to a low-carbon economy. It focuses on scientific and technological innovation, as well as strategic and regulatory frameworks that facilitate adoption. We invite the academic, scientific, and industrial communities to submit original research, reviews, and case studies in these areas:

- Applications of renewable energies (solar, wind, biomass, geothermal, green hydrogen) in industry;
- Advanced technologies for industrial thermal generation and management (e.g., thermal storage, heat recovery);
- Electrification strategies, energy efficiency, and the circular economy in industrial processes;
- Application of innovative fuels and technological solutions for the energy transition;
- Modeling, simulation, and optimization of sustainable industrial processes using AI;
- Life Cycle Assessments (LCAs), sustainability indicators, and environmental impact;
- Applications of automation, digitalization, and AI to energy management;
- Economic, social, and regulatory assessments for Net-Zero technology adoption;
- Case studies and best practices for implementing renewable energy in industry.

### Guest Editors

Dr. Maria Dolores Duran Garcia

Dr. Eduardo González-Mora

Dr. Artur O. Zaporozhets

### Deadline for manuscript submissions

30 April 2026



## Processes

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*Processes*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[processes@mdpi.com](mailto:processes@mdpi.com)

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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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### Editor-in-Chief

Prof. Dr. Giancarlo Cravotto

Department of Drug Science and Technology, University of Turin, Via P. Giuria 9, 10125 Turin, Italy

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