

## Special Issue

# Advanced Combustion Technologies and Emission Control

### Message from the Guest Editor

This Special Issue is intended to contribute to the development of advanced combustion and emission control technologies for low-carbon and zero-carbon fuels, aiming to promote the study of combustion, pollutant generation, and mitigation mechanisms against the background of the carbon neutrality strategy. This Special Issue will focus on, but is not limited to, the following topics:

- The Fundamental combustion physics and chemistry of low-carbon/zero-carbon fuels and their blends with traditional fuels;
- Studies of the mechanisms involved and kinetic modeling of low-carbon/zero-carbon fuel combustion and pollutant emissions;
- Advanced diagnostic technology for low-carbon/zero-carbon fuel combustion;
- Emission control technology for low-carbon/zero-carbon fuel combustion;
- Advanced Combustion technologies for low-carbon/zero-carbon fuels utilization;
- Catalytic combustion and emission mitigation for low-carbon/zero-carbon fuels;
- The use of AI for low-carbon/zero-carbon fuel combustion studies.

---

### Guest Editor

Dr. Lingnan Wu

Institute of Engineering Thermophysics, Chinese Academy of Sciences, Beijing, China

---

### Deadline for manuscript submissions

closed (31 March 2025)



## Energies

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.2  
CiteScore 7.3



[mdpi.com/si/203649](https://mdpi.com/si/203649)

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

[mdpi.com/journal/  
energies](https://mdpi.com/journal/energies)





# Energies

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.2  
CiteScore 7.3



[mdpi.com/journal/  
energies](https://mdpi.com/journal/energies)



## About the Journal

### Message from the Editor-in-Chief

*Energies* is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

---

### Editor-in-Chief

Prof. Dr. Enrico Sciubba  
Department of Mechanical and Industrial Engineering, University  
Niccolò Cusano, 00166 Roma, 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, RePEc, Inspec, CAPlus / SciFinder, and other databases.

#### Journal Rank:

CiteScore - Q1 (Control and Optimization)