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/zerocarbon fuel combustion;
- Emission control technology for low-carbon/zerocarbon fuel combustion;
- Advanced Combustion technologies for lowcarbon/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 100190, China

Deadline for manuscript submissions

closed (31 March 2025)



Energies

an Open Access Journal by MDPI

Impact Factor 3.0 CiteScore 6.2



mdpi.com/si/203649

Energies MDPI, Grosspeteranlage 5 4052 Basel, Switzerland Tel: +41 61 683 77 34 energies@mdpi.com

mdpi.com/journal/

energies





Energies

an Open Access Journal by MDPI

Impact Factor 3.0 CiteScore 6.2



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)