

Special Issue

New Research in Advanced Combustion Technologies for Low-Carbon Emissions

Message from the Guest Editor

Combustion technologies are critical to many sectors, including energy, transportation, and industry. The traditional combustion processes that rely heavily on fossil fuels contribute significantly to carbon dioxide (CO₂) emissions, which drive climate change and air pollution. However, advanced combustion technologies are emerging as solutions to reduce these emissions and contribute to a more sustainable and healthier planet. This Special Issue aims to present and disseminate the most recent advances related to advanced combustion technologies for low-carbon emissions. These technologies include, but are not limited to, the following: Clean coal technologies, gas turbine technologies, renewable and hybrid combustion technologies, carbon capture and storage, low-emission engines, hydrogen combustion engines, and alternative fuels.

Guest Editor

Dr. Qiongyao Qin

College of Energy and Power Engineering, Nanjing University of Aeronautics and Astronautics, Nanjing 210016, China

Deadline for manuscript submissions

31 March 2025



Energies

an Open Access Journal
by MDPI

Impact Factor 3.0
CiteScore 6.2



mdpi.com/si/215168

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

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





Energies

an Open Access Journal
by MDPI

Impact Factor 3.0
CiteScore 6.2



[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 Aerospace Engineering, University of Roma Sapienza, Via Eudossiana 18, 00184 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)