

Special Issue

Heat Transfer and Advanced Combustion in Gas Turbines

Message from the Guest Editors

This Special Issue aims to explore the advancements and challenges in heat transfer and combustion aspects of gas turbines, with a focus on innovative techniques and technologies. Topics of interest for this Special Issue include, but are not limited to:

- Advanced cooling techniques for gas turbine components;
- Heat transfer phenomena and analysis in gas turbine systems;
- Combustion dynamics and modelling in gas turbines;
- Combustion stability and control strategies;
- Novel materials and coatings for improved heat transfer;
- Numerical simulations and experimental investigations;
- Integration of renewable fuels and alternative energy sources;
- Heat recovery and waste heat utilization.

Researchers are encouraged to submit their contributions that push the boundaries of knowledge and propose innovative approaches to address the challenges faced in heat transfer and advanced combustion in gas turbines.

Guest Editors

Dr. Jianyang Yu

School of Energy Science and Engineering, Harbin Institute of Technology, Harbin 150001, China

Dr. Wei Du

School of Energy Science and Technology, Harbin Institute of Technology, Harbin 150001, China

Deadline for manuscript submissions

closed (25 February 2025)



Energies

an Open Access Journal
by MDPI

Impact Factor 3.2
CiteScore 7.3



mdpi.com/si/179059

Energies
Editorial Office
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 3.2
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)