

Special Issue

Advances in Fluid Mechanics and Heat Transfer: Latest Advances and Prospects

Message from the Guest Editor

This Special Issue, entitled “Advances in Fluid Mechanics and Heat Transfer: Latest Advances and Prospects”, aims to provide an overview of theoretical, numerical and experimental research and its technical applications in the following fields: bioenergy and energy recovery; energy sources and sustainable mobility; energy storage and applications; and energy fundamentals and conversion:

- Bioenergy and energy recovery
 - Biodiesel, bioethanol, biogas combustion
 - Microbial fuel cell
- Energy sources and sustainable mobility
 - Propulsion systems
 - Hydrogen and solar
 - Urban physics
- Energy storage and applications
 - Advanced energy materials
 - Batteries, fuel cells, capacitors
 - Micro- and nanoenergy conversion systems
- Energy fundamentals and conversion
 - Heat transfer with nanofluids, droplets and particles
 - Chiller and heat exchanger
 - Thermal storage with phase transition

However, this Special Issue is not limited to the aforementioned scope and also seeks research papers that focus on sophisticated applications in these research fields.

Guest Editor

Dr. Paolo Oresta

Department of Mechanics, Mathematics and Management (DMMM),
Polytechnic University of Bari, via Orabona 4, 70125 Bari, Italy

Deadline for manuscript submissions

5 November 2025



Energies

an Open Access Journal
by MDPI

Impact Factor 3.2
CiteScore 7.3



mdpi.com/si/207797

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)