

## 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.

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### Guest Editor

Dr. Paolo Oresta

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### Deadline for manuscript submissions

closed (20 April 2026)



## Energies

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## 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.

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### Editor-in-Chief

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