Special Issue

Heat Transfer and Advanced Combustion

Message from the Guest Editors

This Special Issue aims to present and disseminate the most recent advances related to the theory, design, numerical modeling, experimental investigation, and application of various heat transfer and combustion technologies. Original research articles and reviews on both fundamental problems and technical developments are invited for submission. Topics of interest:

- Theories and technologies for heat transfer enhancement.
- Various cutting-edge technologies for the cooling of electronics with high heat fluxes.
- Thermal management strategies, technologies, and systems for Li-ion batteries or electric vehicles.
- Micro-/meso-scale combustion, including flame dynamics, combustor design, and energy conversion devices.
- Low-/zero-carbon emission combustion technologies, such as catalytic combustion, porous media combustion, MILD combustion, NH3/H2 combustion, etc.
- Advanced diagnostic techniques for heat transfer and combustion processes.
- Advanced numerical methods for heat transfer and combustion processes.
- Rich-oxygen combustion in the steel industry.
- Fluid mechanics.
- Low-concentration methane gas combustion technology.
- Thermal energy storage.

Guest Editors

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Deadline for manuscript submissions

20 April 2026

Energies

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 7.3

mdpi.com/si/259701

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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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