

Special Issue

Latest Advances In and Prospects of Multiphase Flow and Heat and Mass Transfer

Message from the Guest Editor

Topics of interest for this Special Issue include, but are not limited to, the following:

- The mixing and separation of two-phase flow.
- The measurement of multiphase flow, including flow patterns, liquid film thickness, void fraction.
- Advanced microchannel heat sinks, heat pipes, and vapor chambers.
- Boiling and condensation on functional surfaces and micro/nano-structures.
- Cooling electronic devices and thermal management systems of electrical vehicles, including air cooling, liquid cooling, and phase-change material cooling or heating.
- The latent heat function of nanofluids and nanocapsules.
- Micro/nano heat transfer and multiphase flow of thermal energy storage and thermal management systems, including both experimental and computational studies.
- Advanced energy storage management systems.
- Advanced solar receivers and power cycles.
- Oval phase-change materials for thermal storage and management, including organic, inorganic, and eutectic or micro/nano-encapsulated phase-change materials.

Guest Editor

Dr. Sihui Hong

School of Physics and Astronomy, Sun Yat-sen University, Guangzhou 510000, China

Deadline for manuscript submissions

closed (25 February 2025)



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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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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.

Editor-in-Chief

Prof. Dr. Enrico Sciubba

Department of Mechanical and Industrial Engineering, University
Niccolò Cusano, 00166 Roma, Italy

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