Special Issue

Advanced Research in Heat and Mass Transfer

Message from the Guest Editor

This Special Issue aims to showcase and disseminate cutting-edge research in the theory, simulation, experimentation, and application of heat and mass transfer processes. Topics of interest for publication include but are not limited to

- Conduction, convection (forced/natural), and radiation heat transfer;
- Phase-change phenomena (boiling, condensation, melting/solidification);
- Mass diffusion, convection, and coupled heat/mass transfer;
- Micro/nanoscale thermal transport and nanofluids;
- Porous media transport and multiphase flows;
- Heat and mass transfer in renewable energy systems (solar thermal, batteries, fuel cells, geothermal);
- Thermal management of electronics, data centers, and electric vehicles;
- Advanced materials for thermal insulation, conductivity, or storage;
- Computational fluid dynamics (CFD) and multiscale modeling of transport phenomena;
- Experimental techniques and diagnostics in heat/mass transfer;
- Optimization and machine learning applications in thermal system design;
- Sustainable heat recovery, waste heat utilization, and energy-efficient processes;
- Heat and mass transfer in extreme environments.

Guest Editor

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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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