Special Issue

Heat and Mass Transfer: Theory, Methods, and Applications

Message from the Guest Editor

Heat and mass transfer are fundamental to energy conversion, materials processing, and environmental applications. Understanding transport phenomena is essential for optimizing industrial processes and driving technological innovation. This Special Issue invites research on analytical, numerical, and experimental approaches to heat and mass transfer. Topics include:

- **Fundamental Theories** – Conduction, convection, radiation, phase change, and multispecies diffusion.
- **Computational & Experimental Methods** – CFD, LBM, machine learning, and validation techniques.
- **Multiscale & Multiphysics Problems** – Transport in micro/nanoscale systems, porous media, and coupled interactions.
- **Industrial & Environmental Applications** – Heat exchangers, combustion, electronics cooling, and climate systems.
- **Non-Newtonian & Complex Fluids** – Viscoplastic, shear-thinning, and multiphase flow in engineering and geophysics.

Join us in advancing heat and mass transfer research! Submit your work today.

Guest Editor

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Deadline for manuscript submissions

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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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