Special Issue

Heat Transfer Principles and Applications

Message from the Guest Editors

Heat transfer phenomena take place in many natural and industrial applications and at different scales. Our understanding of the underlying physics behind heat transfer phenomena in different applications is very important to enrich our overall scientific knowledge. This Special Issue focus on heat transfer theoretical and applied research including, but not limited to, analytical developments, advanced computational modeling and simulations, and experimental measurements techniques. This Special Issue focuses on heat transfer in engineering applications including, but not limited to: solar collectors, advanced multiphase, porous and phase-change materials for enhanced heat transfer, advanced cooling of electronic equipment, advanced cooling of nuclear reactors, multidisciplinary design and optimization of heat transfer equipment and thermal systems, urban and district heating, cooling of subways and transportation systems, advanced cooling of electric batteries and electric motors, coupled heat and mass transfer in reactive flows, design and optimization of multifunctional heat exchangers, reactors and mixers, energy conservation in buildings, thermal energy storage.

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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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