Topical Collection

Advances in Heat Transfer Enhancement

Message from the Collection Editors

The importance of improving heat transfer performance is well known in the fields of industry and research. Techniques for improving heat exchange can be divided as passive or active methods. The passive methods do not require external power sources, such as special geometries, treated surfaces, extended surface (fins), rough surfaces, additives for fluid, and so on, whereas the active methods require an external power source (electrical/mechanical) to realize the advanced heat transfer mechanism, such as the stirring of the ferrofluid with an electromagnetic field, vibrating surface. In recent years, many research activities on heat transfer have been addressed to microflow due to its new applications of microfluidic systems and components, such as biochemical cell reaction, micro electric chip cooling, channels, nozzles, diffusers, pumps, mixers, heat pipes, sensors, transducers, and actuators.

The scope of this Topical Collection is to examine original research papers as well as review articles on the most recent developments and research efforts on this subject.

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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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