Special Issue

Heat Transfer Enhancement in Heat Exchangers

Message from the Guest Editors

There are many ways to intensify heat transfer in heat exchangers. They may concern the very structure of the exchanger, including the selection of appropriate materials for the construction of walls through which the heat exchange takes place, the development and modification of the heat exchange surface, and the appropriate selection of the exchanger's elements. It is also important to select the appropriate heat transfer fluids and their thermal and flow parameters. During the modernization of the heat exchanger structure, attention should be paid to the change in the flow resistance of the working media. The increase in the intensification of heat exchange should not significantly increase the flow resistance. The submitted papers should be based on mathematical modeling, numerical simulations, and experimental research. Topics of interest for the publication include, but are not limited to:

- Heat transfer fluids;
- Heat transfer intensification;
- Phase-change phenomenon;
- Flow resistance;
- Wave phenomena;
- New designs of heat exchangers;
- Numerical modeling;
- Experimental research.

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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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