Special Issue

Heat Transfer Characteristics of Heat Pipes

Message from the Guest Editor

The conventional heat pipe is a closed end tube with a wick lining on its inside surface or without wick in wickless heat pipes. The heat pipe is charged with a certain amount of a working fluid. It is divided into three sections: the evaporator where heat is supplied to the device from a heat source, the adiabatic section, and a condenser where heat is dissipated to heat sink. The heat pipe operating principles are based on evaporation of working fluid where heat is carried by vapours to the condenser and rejected due to condensation. Heat pipes are devices capable of very high heat transfer and have been widely used in many thermal management applications. While much effort is devoted to the heat transfer characteristics of heat pipes, there is a pressing need to innovate and demonstrate technologies to be implemented in this area. This Special Issue is focused on bringing together innovative developments, technologies, and solutions in the field of heat transfer characteristics of heat pipes.

Guest Editor

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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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