Special Issue

Heat and Mass Transfer Issues in Mini Gaps

Message from the Guest Editor

The transfer of large heat fluxes is one of the most significant issues with modern technology. In recent years, the range of applications for heat transfer through mini gaps with different geometries has broadened considerably, extending to a new generation of systems. The trend toward the miniaturization of the components of mechanical and electronic equipment has been the driving force behind the development of increasingly better cooling technologies that are designed to prevent maximum allowable operating temperatures from being exceeded. Theoretical analyses, experimental measurements, and practical applications have been performed to help us understand heat and mass transfer phenomena in mini gaps. The results of these studies provide us with information about the design of cooling systems that use minichannel devices and can be applied in cooling, thermostabilization, and thermoregulation. Despite the growing number of new studies dealing with heat and mass transfer in mini gaps, the results refer mainly to a narrow range of parameters...

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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