Special Issue

Two-Phase Heat Transfer in Industrial Engineering

Message from the Guest Editors

Two-phase heat transfer inside tubes is involved in many different applications, among which evaporators and condensers for HVAC and refrigeration equipment. The industry is now facing with the growing number of HVAC and refrigeration systems worldwide, and, at the same time, must deal with the reduction of greenhouse gases, with the aim of controlling the global warming. New equipment involving lower Global Warming Potential refrigerants and highly efficient systems are in great demand nowadays. New experimental data are needed to better understand the behavior of new refrigerants during two-phase heat transfer. In this context, this Special Issue of Applied Sciences aims at collecting contributions related to (but not limited to) two-phase heat transfer of new lower GWP pure refrigerants or refrigerants mixtures inside/outside smooth and/or enhanced tubes. Experimental, numerical and/or modelling contributions are welcome in this Special Issue in order to give a deeper insight about the topic.

Keywords: flow boiling; evaporation; boiling; condensation; smooth tube; enhanced tube; dryout; heat transfer coefficient; pressure drop; empirical correlation.

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Deadline for manuscript submissions

closed (20 July 2022)

Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.5

mdpi.com/si/64682

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As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

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