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Modern Trends in Multi-Phase Flow and Heat Transfer

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Deadline for manuscript submissions:
31 May 2024

Message from the Guest Editors

In this Special Issue, manuscripts on experimental and theoretical studies pertaining to contemporary developments in the disciplines of

1. Fundamental challenges, technological advancements, and problems in thermal transfer, critical heat flux, and multi-phase flow with nanofluids dynamics.
2. The significance of transient power spikes on the temperature transfer coefficient undergoing flow boiling throughout single micro-scale conduits.
3. Evaporation, Marangoni, nanofluids, and thermocapillary convection.
4. Drop impact on uneven or constructed, rough surfaces (i.e., flexible, textile surfaces, and porous)
5. Convective heat exchange in a porous thermally layer saturated with Newtonian and non-Newtonian nanofluids.
6. The influence of heat on thermophysical properties in sheared nanoparticle suspensions.
7. Advanced measurement techniques in this field.
8. Adhesion and Wettability of complex surfaces and/or fluids.

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Message from the Editor-in-Chief

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