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Latest Advances In and Prospects of Multiphase Flow and Heat and Mass Transfer

Guest Editor:

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Deadline for manuscript
submissions:

24 August 2024

Message from the Guest Editor

Topics of interest for this Special Issue include, but are not limited to, the following:

- The mixing and separation of two-phase flow.
- The measurement of multiphase flow, including flow patterns, liquid film thickness, void fraction.
- Advanced microchannel heat sinks, heat pipes, and vapor chambers.
- Boiling and condensation on functional surfaces and micro/nano-structures.
- Cooling electronic devices and thermal management systems of electrical vehicles, including air cooling, liquid cooling, and phase-change material cooling or heating.
- The latent heat function of nanofluids and nanocapsules.
- Micro/nano heat transfer and multiphase flow of thermal energy storage and thermal management systems, including both experimental and computational studies.
- Advanced energy storage management systems.
- Advanced solar receivers and power cycles.
- Oval phase-change materials for thermal storage and management, including organic, inorganic, and eutectic or micro/nano-encapsulated phase-change materials.



mdpi.com/si/181861

Special Issue



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Message from the Editor-in-Chief

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