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Microscale and Nanoscale Heat Transfer

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

Microscale and nanoscale heat transfer has always been an energetic research topic. It provides in-depth insights into the fundamental understanding of the physical mechanism of heat transfer in terms of the microscopic transport phenomena of energy carriers including phonons, photons, electrons, etc. For engineering applications, many innovative technologies have been developed through the study of micro-/nanoscale heat transfer. In particular, researchers in the last decades have witnessed the birth of those technologies with applications in heat transfer under ultimate conditions, the innovation of numerous thermo-functional materials, MEMS and lab-on-a-chip devices, compact heat exchangers, etc. Recently, the global dual-carbon issue has created further research interest in micro-/nanoscale heat transfer. It seems necessary to apply continuous research efforts for efficient usage of green energies, energy harvesting, CCUS, etc.

This Special Issue aims to review and disseminate the most recent advances in the micro-/nanoscale heat transfer.

Prof. Dr. Yuyan Jiang
Guest Editor

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Message from the Editor-in-Chief

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