Special Issue

Heat and Mass Transfer in Micro/Nanoscale

Message from the Guest Editors

Heat and mass transfer in microscale and nanoscale feature contributions from prominent researchers in the field of micro-and nanoscale heat transfer and associated technologies can help to provide a complete understanding of thermal transport in nano-materials and devices. Nanofluids can be used as working fluids in thermal systems; the thermal conductivity of heat transfer fluids can be increased by adding nanoparticles in fluids. This Special Issue covers both experimental and theoretical investigations made on nanofluids for use in engineering and technology. It examines the use of nanofluids in improving heat transfer rates, covers the numerical approaches for the computational fluid dynamic (CFD) simulation of nanofluids, and reviews the experimental results of commonly used nanofluids dispersed in both spherical and non-spherical nanoparticles. It mainly focuses on current and developing applications of microscale and nanoscale convective heat transfer.

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Editor-in-Chief

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