



Symmetry/Asymmetry in Micro/Nanoscale Heat and Mass Transfer, Phase Change and Multiphase Flow

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Message from the Guest Editor

Heat and mass transport at the micro/nanoscale plays essential roles in many industrial and engineering applications. At the micro/nanoscale, the surface tension, phase change and other interfacial characteristics together create complex but interesting symmetric/asymmetric transport phenomena. This Special Issue provides a vehicle for researchers to exchange their ideas regarding heat and mass transfer throughout the world, focusing on not only the physical fundamentals, but also novel applications and techniques developed based on the micro/nanoscale transport process.

Topics of interest in this Special Issue include:

Symmetric/asymmetric transport phenomena and fundamentals at micro/nanoscale;

Interface, phase change and multiphase flow;

Fluid–structure interactions and particle–fluid interactions at microscale;

Symmetric/asymmetric flow instabilities;

Advancing techniques and applications based on the micro/nanoscale transport process, including, but not limited to, electronics cooling, biochemical analysis, microfluidics, material process, etc





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Message from the Editor-in-Chief

Symmetry is ultimately the most important concept in natural sciences. It is not surprising then that very basic and fundamental research achievements are related to symmetry. For instance, the Nobel Prize in Physics 1979 (Glashow, Salam, Weinberg) was received for a unified symmetry description of electromagnetic and weak interactions, while the Nobel Prize in Physics 2008 (Nambu, Kobayashi, Maskawa) was received for the discovery of the mechanism of spontaneous breaking of symmetry, including CP symmetry. Our journal is named *Symmetry* and it manifests its fundamental role in nature.

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