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Research on Heat Transfer Analysis in Fluid Dynamics

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Message from the Guest Editors

Heat transfer plays a fundamental role in various industrial and engineering applications, and understanding its behavior in fluid dynamics is crucial for optimizing energy efficiency, performance, and sustainability. Topics of interest include, but are not limited to, convection heat transfer in laminar and turbulent flows, heat transfer enhancement techniques in fluids, phase change heat transfer in multiphase systems, radiative heat transfer in participating media, heat transfer in porous media and nanofluids, experimental and numerical methods for heat transfer analysis, heat transfer in microfluidics and MEMS devices, and heat transfer in renewable energy systems and thermal management.

The goal of this Special Issue on "Research on Heat Transfer Analysis in Fluid Dynamics" is to gather and showcase the latest research advancements, findings, and innovative approaches in the field of heat transfer analysis in fluid dynamics.

Keywords:

- heat transfer
- fluid dynamics
- multiphase systems
- phase change materials
- porous media
- nanofluids

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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