



New Trends of Heat Transfer and Fluid Flow in Phase Change Materials

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Message from the Guest Editor

This Special Issue focuses on new strategies and the development of PCMs based on analytical, experimental and numerical investigations to explore the fundamental understanding of heat transfer, fluid flow and the mass transfer phenomenon for a wide range of applications including thermal energy storage, utilization and conversion, the thermal management of electronics, batteries, photovoltaics and fuel cells, building heating/cooling and smart composite materials.

This Special Issue aims to invite recent investigations related to analytical, experimental and numerical solutions for PCMs to address the challenges of thermo-fluids, material science and energy systems. This Special Issue seeks both high-quality original research and review articles.

Keywords

- phase-change materials
- natural and forced convection heat transfer
- fins, porous and metal–matrix media
- thermophysical properties
- electronics and battery thermal management
- sustainable energy technologies
- computational fluid dynamics





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Message from the Editor-in-Chief

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