

## Special Issue

# Research on Heat Transfer and Sustainable Energy Systems

### Message from the Guest Editor

The global energy landscape is undergoing a transformative shift toward sustainability, driven by the urgent need to reduce carbon emissions, improve energy efficiency, and integrate renewable energy sources. Heat transfer plays a crucial role in this transition, influencing the performance and sustainability of energy systems in diverse applications, from industrial processes to residential heating and cooling. Advancements in heat transfer technologies can significantly enhance energy conversion efficiency, reduce waste heat, and enable the more effective utilization of renewable energy sources. This Special Issue aims to bring together cutting-edge research in heat transfer mechanisms, innovative materials, and novel energy system designs that contribute to sustainability. The focus will be on fundamental studies and applied research that advance sustainable energy solutions through improved thermal management. We welcome contributions exploring theoretical, experimental, and computational approaches to heat transfer phenomena, as well as studies that integrate sustainable practices into energy-intensive sectors.

### Guest Editor

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## Sustainability

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### Editor-in-Chief

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