

Special Issue

Sustainable Energy: Research on Heat Transfer and Energy Systems

Message from the Guest Editor

The global demand for sustainable energy solutions continues to grow in response to mounting environmental pressures, rising energy demands, and the urgent need to reduce greenhouse gas emissions. A key challenge lies in the development of clean, efficient, and scalable technologies that not only harness renewable resources but also ensure effective thermal and energy management across various systems. Heat transfer and energy systems research plays a critical role in this context, as it directly affects the performance, efficiency, and feasibility of sustainable energy technologies, ranging from solar and geothermal energy to advanced hydrogen production, energy storage, and industrial decarbonization. This Special Issue aims to highlight recent advances and emerging research trends in sustainable energy and heat transfer. We seek to collect contributions that explore thermal management strategies, approaches to system integration, and experimental or modeling efforts that support the development of cleaner, more efficient, and economically viable energy solutions.

Guest Editor

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Message from the Editor-in-Chief

I encourage you to contribute a research or comprehensive review article for consideration for publication in Sustainability, an international open access journal which provides an advanced forum for research findings in areas related to sustainability and sustainable development. The journal publishes original research articles, reviews, conference proceedings (peer reviewed full articles) and communications. I am confident you will find the journal contributes to enhancing understanding of sustainability and fostering initiatives and applications of sustainability-based measures and activities.

Editor-in-Chief

Prof. Dr. Steve W. Lyon

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