

Special Issue

Advancements in Thermal Engineering: Innovations for Sustainable Energy Systems

Message from the Guest Editors

The aim of this Special Issue is to showcase cutting-edge research and insightful reviews that explore how advanced thermal engineering solutions can drive sustainable energy transformation. Aligned with the interdisciplinary scope of the Sustainability journal, this issue seeks to highlight not only technological developments but also their system-level integration, environmental impact, and practical implementation in energy systems. We especially welcome work that bridges science and application, demonstrating how thermal innovations contribute directly to real-world energy challenges. We encourage submissions across a diverse range of topics, including but not limited to:

- Solar thermal energy systems and concentrating solar collectors
- Solar drying technologies for agriculture and biomass
- Phase change materials and thermal energy storage systems
- Solar industrial process heat (SIPH) applications
- Thermochemical and hybrid energy conversion systems
- Waste heat recovery and heat integration in process industries
- Thermal systems modeling, simulation, and optimization
- Digitalization and AI-driven control in thermal energy management

Guest Editors

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About the Journal

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. *Sustainability* publishes original research articles, review 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

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