Special Issue

Heat Transfer Performance and Influencing Factors of Waste Management

Message from the Guest Editors

This Special Issue focuses on cutting-edge research exploring heat transfer mechanisms and optimization strategies in waste management systems. We welcome contributions addressing both fundamental studies and practical applications that advance our understanding of thermal processes in waste treatment and valorization. Key topics of interest include, but are not limited to:

- **Heat Transfer Fundamentals in Waste Processing**
  - Thermal characterization of waste materials
  - Heat transfer mechanisms in various waste streams
  - Modeling and simulation of thermal processes
- **Thermal Conversion Technologies**
  - Pyrolysis, gasification, and incineration systems
  - Reactor design and heat transfer optimization
  - Process parameter effects on thermal efficiency
- **Innovative Heat Recovery Systems**
  - Waste heat utilization technologies
  - Thermal energy storage from waste sources
  - Integrated energy recovery systems
- **Performance Enhancement Strategies**
  - Advanced heat exchange surfaces
  - Novel insulation materials and techniques
  - Process intensification method

Guest Editors

Prof. Dr. Hongting Ma

School of Environmental Science and Engineering, Tianjin University, Tianjin 300072, China

Dr. Shuo Ma

School of Energy and Safety Engineering, Tianjin Chengjian University, Tianjin 300192, China

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Energies
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
energies@mdpi.com

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Energies is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

Editor-in-Chief

Prof. Dr. Enrico Sciubba
Department of Mechanical and Industrial Engineering, University Niccolò Cusano, 00166 Roma, Italy

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