

## Special Issue

# Advanced Research on Heat Exchanger Networks and Heat Recovery: 2nd Edition

### Message from the Guest Editors

Consequently, energy efficiency is a key issue in terms of both economic efficiency and environmental impact. Heat exchanger networks in different industries can recover processed heat energy, preventing additional fuel consumption in furnaces or electricity consumption for cooling cycles. Heat exchanger network synthesis, retrofitting, and optimisation comprise the long-term development goals that currently face new challenges. This Special Issue aims to explore new advancements and prospective developments in heat exchanger networks, including topics such as network synthesis and optimisation, thermodynamic and thermal design, operation and maintenance, networks for industry electrification, digital twins of heat recovery systems, hydrogen-containing recovery systems, and the integration of renewable energies into heat recovery networks, among others.

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### Guest Editors

Dr. Stanislav Boldyryev

Dr. Bohong Wang

Dr. Timothy Gordon Walmsley

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### Deadline for manuscript submissions

15 December 2025



## Energies

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## About the Journal

### Message from the Editor-in-Chief

*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.

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### Editor-in-Chief

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