

Special Issue

Advances in Organic Rankine Cycle and Heat Pump Systems for Thermal Efficiency Improvement

Message from the Guest Editors

Research scholars are sincerely invited to submit original research, reviews, and perspective articles on the topics of interest for publication including, but not limited to:

- Configuration design of high efficiency ORC and heat pump
- Preparation, optimization, selection of working fluids
- Thermodynamic and economic analyses of the systems
- Design of novel heat exchanger, compressor and expander
- Heat transfer control and enhancement of heat exchangers
- Single phase and multiphase flow controls of compressor and expander
- AI applications on the performance optimizations of the system and devices
- Smart fault detection and diagnosis of ORC and heat pump systems
- Advanced simulation and testing approaches

Dr. Panpan Song

Guest Editors

Dr. Panpan Song

School of Mechanical Engineering, Beijing Institute of Technology, Beijing 100081, China

Dr. Ran Tian

School of Mechanical Engineering, Beijing Institute of Technology, Beijing 100081, China

Deadline for manuscript submissions

closed (31 May 2025)



Energies

an Open Access Journal
by MDPI

Impact Factor 3.2
CiteScore 8.3



mdpi.com/si/195930

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

[mdpi.com/journal/
energies](https://mdpi.com/journal/energies)





Energies

an Open Access Journal
by MDPI

Impact Factor 3.2
CiteScore 8.3



[mdpi.com/journal/
energies](https://mdpi.com/journal/energies)



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.

Editor-in-Chief

Prof. Dr. Enrico Sciubba

Department of Mechanical and Industrial Engineering, University
Niccolò Cusano, 00166 Roma, Italy

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, RePEc, Inspec, CAPlus / SciFinder, and other databases.

Journal Rank:

CiteScore - Q1 (Control and Optimization)