



energies



an Open Access Journal by MDPI

Advances in High-Temperature Heat Pumps

Guest Editor:

Dr. Jian Sun

School of Energy Power and
Engineering, North China Electric
Power University, Beijing 102206,
China

Deadline for manuscript
submissions:

closed (5 July 2023)

Message from the Guest Editor

Dear Colleagues,

Low-carbon energy-saving technology is a key research direction in the international energy field. Heat pump technology, as an energy-saving and emission-reducing measure, has been widely used in industrial and HVAC fields. Conventional heat pumps are limited by the thermodynamic cycle, circulating the working medium and the operating range of compressors, resulting in limited heating temperature, which cannot meet the demand for high-temperature heating in industrial and civil fields. High-temperature heat pump technology research has become the key direction of global research in related fields. High-temperature heat pumps can be applied to industrial steam and hot water supplies, efficient renewable energy consumption, energy storage coupling, and low-carbon heating. The Special Issue, named “Advances in High-Temperature Heat Pumps”, aims to publish research on new cycles, principles, refrigerants, and applications for industries and residents with high-temperature heat pumps.



mdpi.com/si/150551

Special Issue



energies



an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Enrico Sciubba

Department of Mechanical and
Aerospace Engineering,
University of Roma Sapienza, Via
Eudossiana 18, 00184 Roma, Italy

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.

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)

Contact Us

Energies Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/energies
energies@mdpi.com
[X@energies_mdpi](https://twitter.com/energies_mdpi)