

Special Issue

Heat Pumps Using Low-GWP Refrigerants 2022

Message from the Guest Editors

Heat pumps play a vital role in providing space conditioning and water heating while utilizing the energy of the environment. Since heat pumps use renewable thermal energy from the environs to provide the desired utility, they contribute to the portfolio of technologies that mitigate the carbon footprint. This Special Issue invites high-quality research papers covering a wide range of topics related to multifunctional heat pumps, low-GWP and drop-in replacement refrigerants, applications to different climates and renewable energy sources, and systemic analysis. The articles are expected to inform on how to encourage development of sustainable technologies to mitigate climate change and help to meet or exceed the goals of the climate accords by providing practical solutions in the near term.

- heat pumps
- integrated heat pumps
- low-gwp refrigerants
- water heating
- space conditioning
- refrigeration
- solar-assisted heat pumps
- vapor compression systems
- thermally driven heat pumps

Guest Editors

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Deadline for manuscript submissions

closed (30 June 2023)



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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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