Special Issue

Advances in High-Temperature Heat Pumps

Message from the Guest Editor

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.

Guest Editor

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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.

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