Special Issue

Design of Heat Exchangers for Heat Pump Applications

Message from the Guest Editors

As is well known, heat pumps (HPs) allow for providing heat without direct combustion, in both civil and industrial applications. The proper selection of the heat source and the correct design of the heat exchangers is crucial for attaining high HP efficiencies—examples can be ground coupled heat exchangers, lake/sea/waste water systems, enhanced surface heat exchangers, and HPs exploiting waste heat from industrial and civil processes.

Heat exchangers (also in terms of HP control strategies) are hence one of the main elements of HPs, and improving their performance enhances the effectiveness of the whole system. New models and measurements are required for best HPs system design, including optimization strategies for energy exploitation, temperature control, and mechanical reliability.

Papers submitted for this Special Issue may be research papers (theoretical and experimental), reviews, or analyses of case studies.

Guest Editors

Prof. Dr. Marco Fossa

Dime Department of Mechanical, Energy, Management and Transportation Engineering, The University of Genova, via Opera Pia 15, 16145 Genova, Italy

Dr. Antonella Priarone

Dime Department of Mechanical, Energy, Management and Transportation Engineering, The University of Genova, via Opera Pia 15, 16145 Genova, Italy

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

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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.

Editor-in-Chief

Prof. Dr. Enrico Sciubba
Department of Mechanical and Industrial Engineering, University Niccolò Cusano, 00166 Roma, Italy

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