Special Issue

Generation, Use, Conversion and Exchange of Thermal Energy

Message from the Guest Editors

Heat is either the final product of the energy conversion chain or an energy vector, and its management is a crucial issue in many aspects of everyday life. The first case regards all the ambient conditioning systems, including refrigeration, and many industrial processes that require controlled temperatures. The second category is mostly related to electricity generation, such as all combustion systems, nuclear energy, solar thermal and geothermal power systems, in which the energy is in the form of heat at the source or in an intermediate step of the conversion process.
This Special Issue aims to collect research and review articles on the topic of thermal energy utilization in a broader sense. Analyses of technologies and systems involved in the production, conversion and transfer of thermal energy are specifically suitable. Concepts such as cogeneration, tri-generation and waste heat recovery are included. Studies on cooling and refrigeration technologies are welcome. Thermal energy storage techniques, including Carnot batteries, are also suitable topics.

Guest Editors

Dr. Saverio Ottaviano
Department of Industrial Engineering, University of Bologna, 40126 Bologna, Italy
Dr. Lisa Branchini
Department of Industrial Engineering, University of Bologna, 40136 Bologna, Italy

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

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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.

Editor-in-Chief

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

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