Special Issue

High-Temperature Heat Pumps (HTHP) and Organic Rankine Cycle (ORC) for Waste Heat Revalorization in the Industrial Sector

Message from the Guest Editors

In recent years, a reduced number of technologies have been proposed for waste heat revalorization, and significant research is being performed in order to discover more reliable and economic systems to be extended to many different solutions. Among them, Organic Rankine Cycles (ORC) is being one of the most popular solutions for clean electricity generation using low grade heat; high-temperature heat pumps (HTHPs) have also been proposed to increment the temperature level of a flow in order to be reutilized in a process, hence substituting fossil fuel burners. Different optimum solutions in order to maximize the electricity generated or the heating upgrade can be reached, depending on the specific industrial application and the operating conditions. This Special Issue is intended to gather and present the most recent developments in HTHPs and ORCs applied to waste heat revalorization for the cleaner industry of the future.

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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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