Special Issue

Advanced Solutions for the Storage and Efficient Utilization of Waste Heat

Message from the Guest Editor

The severe energy crisis and ecological pollution worldwide have had adverse effects on the sustainable development of countries globally, posing a serious threat to the long-term prosperity of humanity. These challenges are mainly attributed to the enormous energy consumption and pollutant emissions in industrial production and operation. Fortunately, in the current severe energy and environmental situation, many countries around the world have begun to promote low-carbon and energy-saving energy transformations, especially the emergence of advanced waste heat storage and recycling methods, which have brought unprecedented opportunities and challenges for industrial energy conservation and low-carbon development. In various industries, storing and utilizing waste heat is considered an effective method to overcome system intermittency, improve system economic efficiency, save energy, and reduce emissions. This Special Issue aims to introduce and disseminate the latest developments related to the theory, design, modeling, and application of advanced waste heat storage and recovery technologies.

Guest Editor

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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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