Special Issue

Applications for the Organic Rankine Cycle

Message from the Guest Editor

With the global energy demand on the rise, the utilisation of unconventional energy sources and the application of diverse energy systems continue to be the focal points of scientific and industrial research worldwide. The organic Rankine cycle is a promising technology, proven to be an effective tool for distributed electricity generation and harnessing waste heat energy. Standalone systems are commonly powered by biomass and successfully paired with concentrated solar power (CSP) and steam Rankine systems. On-board applications are being developed, with recent advances concentrating on waste heat recovery from exhaust gas heat, including internal combustion engines, heavy and light duty vehicles, and marine applications. Significant attention is being paid to the design and operation of ORC systems and their components, primarily expanders, working fluid selection, as well as optimization and control strategies. Keywords

- organic Rankine cycle
- waste heat recovery
- working fluids
- expanders
- thermoeconomic analysis

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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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