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Advances in Organic Rankine Cycle System and Thermal Storage System

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Deadline for manuscript submissions:
closed (27 February 2024)

Message from the Guest Editors

Organic Rankine cycle is considered to be the most promising thermodynamic cycle for low-temperature rejected heat and its conversion into power, a process of much of research interest. Moreover, the thermal storage systems can accelerate the large-scale employment of heat-to-power conversion engines, leading to larger operation times, the development of polygeneration systems and finally increased energy savings and reduced CO2 footprint.

The main scope of this Special Issue is to present the current state-of-the art in organic Rankine cycles and thermal energy systems. This includes CO2 power cycles and other innovative power generation cycles, which may lead to next-generation power production systems. This Special Issue will contribute a comprehensive forum for research ideas such as the following:

- Organic Rankine cycles modelling concepts and control
- Power conversion cycles
- Supercritical CO2 power cycle
- Trilateral flash cycle
- Thermal energy storage systems
- Innovative methods/materials for energy storage
- Components design and modelling
- Combined heat and power generation applications

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Message from the Editor-in-Chief

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