Special Issue

Organic Rankine Cycle Systems for Waste-Heat Recovery

Message from the Guest Editor

Large amounts of excess heat are wasted in various processes with the Waste Heat Recovery (WHR) market experiencing a high growth globally. For medium to low temperature ranges, ORC is currently the prevailing heat-to power conversion technology, citing numerous references and many companies with commercial products. Further evolution of ORC is a challenging technological field gathering the strong interest of both scientific and industrial society in aspects such as the increment of thermal efficiency, increase of reliability, working fluids of low/negligible environmental impact, novel systems' architectures, design optimisation, advancements in key components, etc. Thus, key topics of interest of the special issue are:

- system modeling
- new/novel working fluids
- expander technologies
- WHR application
- ORC Variants
- innovative systems' architectures
- heat exchanger
- interaction with other heat generation/handlings sources
- testing of prototypes
- novel control techniques
- polygeneration

Guest Editor

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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