Special Issue

Advances in Organic Rankine Cycle System and Thermal Storage System

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

Guest Editors

Dr. Dimitris S. Manolakos

Department of Natural Resources Management & Agricultural Engineering, Agricultural University of Athens, Iera Odos 75, 11855 Athens, Greece

Dr. Apostolos Gkountas

Department of Mechanical Engineering, University of West Attica, 12244 Athens, Greece

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Energies
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
energies@mdpi.com

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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.

Editor-in-Chief

Prof. Dr. Enrico Sciubba
Department of Mechanical and Industrial Engineering, University Niccolò Cusano, 00166 Roma, Italy

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