Special Issue

Thermoelectric Energy Systems

Message from the Guest Editors

Thermoelectric energy systems have many advantages over traditional energy technologies due to their quietness, small size, cleanliness, high energy density, long lifecycle, and simplicity. TEGs are currently widely used in applications ranging from power generators in space missions to common thermocouple sensors, from small energy harvesters for self-powered sensors to large-scale waste energy recovery. Meanwhile, the TECs find wide applications in air conditioners, camper fridges, water chillers, electronics cooling, etc. The recent demand on high-performance chip cooling has also driven the development of micro-TECs. This Special Issue aims to present and disseminate the most recent advances related to the theory, material, fabrication, design, modelling, and application of all types of thermoelectric energy systems. Topics of interest for publication include, but are not limited to:

- Theory of thermoelectricity
- Thermoelement, device, and system
- Thermoelectric applications
- Optimal design methodologies
- Advanced modelling approaches
- Thermoelectric material synthesis, processing, and measurements
- Advanced thermoelectric materials
- Thermoelectric interface materials

Guest Editors

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Deadline for manuscript submissions

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About the Journal

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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