Special Issue

Solar Thermoelectric Generators

Message from the Guest Editors

STEGs are thermoelectric generators that use solar radiation as a heat source. STEGs are very simple, reliable, and lightweight, and they may operate with high-temperature high-efficiency thermoelectric modules. All of these features, among others, have recently increased the interest of using STEGs to provide electrical energy in off-grid applications, to improve the energy efficiency of systems and facilities, and so on. This Special Issue focuses on the analysis, design, and implementation of STEGs. Potential topics include, but are not limited to, the following:

- STEG design (cold and/or hot heat sinks, structure design of thermoelectric modules, etc.)
- Performance analysis of STEG systems
- Optimization studies of STEG systems
- High-performance thermoelectric materials for STEG applications
- Non-conventional applications of STEG (windows, façades, roads, etc.)
- Micro-power STEG systems
- STEG for space applications
- STEG integrated in other energy systems
- Hybrid PV-STEG systems

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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.

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