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Solar Thermoelectric Generators

Guest Editors:

Dr. Toni Pujol
Dept Mech Engn & Ind Construct, Univ Girona, 17003 Girona, Spain

Dr. Eduard Massaguer
Dept Mech Engn and Ind Construct, Univ Girona, 17003 Girona, Spain

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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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Editor-in-Chief

Prof. Dr. Enrico Sciubba
Department of Mechanical and Aerospace Engineering, University of Roma Sapienza, Via Eudossiana 18, 00184 Roma, Italy

Message from the Editor-in-Chief

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Energies Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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