

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

Prof. Dr. Yongjia Wu
Prof. Dr. Tingzhen Ming
Prof. Dr. Yonggao Yan

Deadline for manuscript submissions

closed (15 November 2023)



Energies

an Open Access Journal
by MDPI

Impact Factor 3.2
CiteScore 7.3



mdpi.com/si/137720

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

[mdpi.com/journal/
energies](https://mdpi.com/journal/energies)





Energies

an Open Access Journal
by MDPI

Impact Factor 3.2
CiteScore 7.3



[mdpi.com/journal/
energies](https://mdpi.com/journal/energies)



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.

Editor-in-Chief

Prof. Dr. Enrico Sciubba

Department of Mechanical and Industrial Engineering, University
Niccolò Cusano, 00166 Roma, Italy

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, RePEc, Inspec, CAPlus / SciFinder, and other databases.

Journal Rank:

CiteScore - Q1 (Control and Optimization)