



Portable Power Generation and Energy Harvesting with Advanced Electric Devices

Guest Editors:

Dr. Zaixin Song

Dr. Chunhua Liu

Dr. Xiao Yang

Dr. Hang Zhao

Dr. Senyi Liu

Deadline for manuscript
submissions:

closed (30 June 2022)

Message from the Guest Editors

Dear Colleagues,

This Special Issue focuses on reviews and technical studies on energy generation, harvesting, conversion, and utilization, with regard to these portable application scenarios. Potential topics include, but are not limited to:

- High-efficiency and high-power-density electric generator topology design;
- Design, analysis, and optimization of rotating/linear permanent magnet generators;
- Fault-tolerant electric generator topology and winding design;
- Monitoring, failure mode analysis, and fault diagnosis of electric generator systems;
- High-efficiency power converter and rectifier systems;
- Integrated design consideration of generator and power converter systems;
- Energy harvesting devices for portable power generation;
- Emerging wireless energy/power transfer technology for portable power generation.

Dr. Zaixin Song
Dr. Chunhua Liu
Dr. Xiao Yang
Dr. Hang Zhao
Dr. Senyi Liu
Guest Editors





energies



an Open Access Journal by MDPI

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

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.

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)

Contact Us

Energies Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/energies
energies@mdpi.com
[X@energies_mdpi](https://twitter.com/energies_mdpi)