



energies



an Open Access Journal by MDPI

Power Electronic Applications to All-Electric and Hybrid Transportation Systems, Renewable Energy Sources, Energy Harvesters and Energy Saving

Guest Editors:

Dr. Anastasios Kyritsis

Environmental Physics, Energy
and Environmental Biology
Laboratory, Department of
Environment, Ionian University,
29100 Panagoula-Zakynthos,
Greece

Dr. Nick Papanikolaou

Department of Electrical and
Computer Engineering,
Democritus University of Thrace,
67132 Xanthi, Greece

Deadline for manuscript
submissions:

15 May 2024

Message from the Guest Editors

Dear Colleagues,

The aim of the present Special Issue is to attract original high-quality papers and review articles proposing advances in power electronics for land, marine and aerial transportation, renewable energy sources, energy savings and buildings. Major topics include but are not limited to the following:

- All-electric and hybrid land, marine and aerial transportation systems; electric vehicle charging stations, strategies and techniques, vehicle-to-grid (V2G);
- Renewable energy conversion systems; design, modeling, control and integration to modern electrical grids;
- Power electronics systems for smart buildings, nZEBs and ZEBs;
- Internet of Energy (IoE);
- (Smart) microgrids; grid-connected/standalone solutions, energy management;
- Energy harvesters;
- Thermoelectric applications;
- Heat recovery systems;
- Wireless power transfer;
- Smart city concept;
- Dynamic features of power electronics interfaced energy saving applications;
- Flexible and wide-band open-in-loop control schemes for energy saving applications.



mdpi.com/si/124293

Special Issue



energi



supercapacitors, flywheels and new trends and concepts;

- New materials and methods for energy saving;

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 (*Engineering (miscellaneous)*)

Contact Us

Energies Editorial Office
MDPI, St. Alban-Anlage 66
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)