Special Issue

Power Electronic Circuits and Techniques for Renewable Energy Conversion and Storage

Message from the Guest Editors

To focus on the latest scientific results and advances in the analysis, the design and the optimization of power electronic circuits and techniques for the conversion and storage of renewable energy sources; To bring together scientists adopting several approaches and working on the above topics; To promote and share as much top-level research in the field of power electronic circuits for renewable energy systems as possible. This Special Issue is open to both original research articles and review articles covering (but not limited to) the analysis, the design and the optimization of power electronic circuits for the conversion and storage of the following renewable energy sources:

- Photovoltaic sources;
- Vibrations (piezoelectric, electromagnetic, electrostatic and magnetostrictive harvesters);
- Wind turbines;
- Thermoelectric generators;
- Regenerative suspension systems (automotive and railway applications);
- Other innovative energy harvesting systems (rainfall, electromagnetic fields, pyroelectric, bistable systems for satellite applications).

Guest Editors

Dr. Luigi Costanzo

Department of Engineering, Università degli Studi della Campania Luigi Vanvitelli, Aversa, CE, Italy

Prof. Dr. Massimo Vitelli

Department of Engineering, Università degli Studi della Campania Luigi Vanvitelli, Aversa, CE, Italy

Deadline for manuscript submissions

closed (30 November 2024)

Energies

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 7.3

mdpi.com/si/161453

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

mdpi.com/journal/energies

Energies

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 7.3

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)

MDPI