Special Issue

Advanced Frontiers for Power Electronics in Energy Conversion

Message from the Guest Editor

The world's growing population creates the need for paramount efficient and sustainable, handling of energy. Power electronics have enabled efficient use of energy, and its techniques continue to expand its already large field of influence. This Special Issue is about the inroad that power electronics plays challenging traditional energy approaches that still prevail in some fashion and pushing to new horizons. Topics of interest for publication include but are not limited to:

- Ultra-efficient converter for microelectronics.
- Advanced application in power systems, including generation, transmission, and distribution.
- Residential power applications including lighting, high-efficient air conditioning, and water heaters
- Solid-state transformers
- Energy storage, including new batteries, controls, and PHM (Prognostic Health Management) techniques.
- Converter for telecom especially for 5G applications
- Power wireless transmission
- Power electronics in transportation including charging station
- A special power converter for emerging fields

Keywords: EV; energy storage; smart homes; microgrid; energy *Please scan the QR code for more information.*

Guest Editor

Dr. Antonio Ginart

Katerra, Menlo Park, CA 94025, USA
28735 Citrus Place, Santa Clarita, CA 91390, USA

Deadline for manuscript submissions

closed (30 April 2022)

Energies

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 7.3

mdpi.com/si/74557

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)