Special Issue

Review of Advanced Power Electronics Solutions

Message from the Guest Editors

One of the greatest problems that the world is facing today is environmental pollution and the depletion of natural resources. It forces the development of different new green technologies. Renewable energy integration in AC residential grids, along with storage systems, is a hot topic of power electronics today. At the same time, the new tendency consists of the limitation of the injection of power from renewable sources to the AC grid. New challenges crop up. The DC grid and wireless power transform are new trends in power electronics that have to solve existing problems. This Special Issue is devoted to the state of art review of novel or recently proposed power electronics solutions devoted to the arising power electronics trends. The main focus will be on the review of emerging solutions, their feasibility study through the acquisition of new knowledge in areas related to power circuit design, the control and implementation of advanced materials and active and passive components, and comparative analysis.

Guest Editors

Dr. Oleksandr Husev

Department of Mechatronics and Electrical Engineering, Tallinn University of Technology, EE-19086 Tallinn, Estonia

Dr. Carlos Roncero-Clemente

Department of Electrical, Electronic and Control Engineering, University of Extremadura, 06006 Badajoz, Spain

Deadline for manuscript submissions

closed (10 May 2023)

Energies

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 7.3

mdpi.com/si/81556

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