Special Issue

Power Converters and Control of High-Efficiency Energy Conversion Systems

Message from the Guest Editor

This Special Issue focuses on the critical aspects of power converters and control systems in the domain of high-efficiency energy conversion. As the demand for sustainable and efficient energy solutions continues to grow, advancements in power conversion technologies are pivotal to meeting these global challenges. The primary aims of this Special Issue are as follows:

- Advancing energy efficiency: to showcase novel approaches and methodologies in power conversion that lead to higher energy efficiency across various applications;
- Control strategies for optimal performance: to highlight research into sophisticated control algorithms and strategies tailored;
- Integration of renewable sources: to explore how power converters and control systems can facilitate the seamless integration of renewable energy sources;
- Emerging technologies and trends: to provide a forum for discussing emerging technologies, like wide-bandgap semiconductors, multi-level converters, and advanced modulation techniques;
- Robustness and reliability: to emphasize the importance of robust converter designs and control schemes that ensure reliable operation.

Guest Editor

Prof. Dr. George Ch Ioannidis

Department of Electrical and Electronics Engineering, University of West Attica, GR-12241, Greece

Deadline for manuscript submissions

closed (15 June 2024)

Energies

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 7.3

mdpi.com/si/188512

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)