

Special Issue

Advances in Modelling and Control of Power Converters

Message from the Guest Editors

Power electronic converters are critical components in modern industry including renewable energy generation, electric vehicles, electric aircraft, robotics, etc. The rapid development of power electronic technologies toward high power density and high frequency also poses new challenges. Topics of interest for publication include, but are not limited to:

- Advanced modeling and analysis methods of power converters, such as nonlinear method, artificial intelligent-based method, etc.
- Advanced topology of power converters.
- Advanced control strategy of power converters.
- Wide bandgap device and its application in power conversion system.
- Advanced application of power converters in emerging fields such as more electric aircraft, electric vehicles, and wind power converters.
- Thermal analysis and management technology of power converter.
- Modeling, analysis, and control of multiple paralleled converters.
- Advanced power conversion technology for a renewable microgrid.
- The application of AI technology in power converter.
- Real-time digital modeling and simulation technology of power converter.

Guest Editors

Dr. Yanbo Wang

Dr. Dong Wang

Dr. Weihua Zhou

Deadline for manuscript submissions

closed (31 January 2024)



Energies

an Open Access Journal
by MDPI

Impact Factor 3.9
CiteScore 8.3



mdpi.com/si/178460

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

[mdpi.com/journal/
energies](https://mdpi.com/journal/energies)





Energies

an Open Access Journal
by MDPI

Impact Factor 3.9
CiteScore 8.3



[mdpi.com/journal/
energies](https://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)