

## Special Issue

# Control and Topologies of Grid Connected Converters

### Message from the Guest Editors

Dear colleagues, The fast growth of distributed generation systems (DGSs) and smart grids (SGs), including the increasing number of renewable energy sources (RES), active loads, and energy storages, requires the development of high-performance power electronics converters. Therefore, this Special Issue will focus on emerging grid-connected power electronic topologies, control, and applications. Topics of interest for publication include, but are not limited to:

- advanced grid-connected converters (e.g., WBG 2-level converters, cell-based multilevel grid converters);
- advanced modulation and control schemes;
- modeling and implementation of converters and control;
- grid filters, including inductive components, filter design, and active damping;
- parallel connected grid converters;
- special problems at weak grids and/or small (island) grids;
- solid state transformers/smart transformers; and
- active filters, active rectifiers, FACTS, Statcom, etc.

### Guest Editors

Dr. Mariusz Malinowski

Prof. Dr. Steffen Bernet

Prof. Dr. Marcelo A. Perez

Dr. Sebastian Styński

### Deadline for manuscript submissions

closed (31 January 2022)



## Energies

an Open Access Journal  
by MDPI

Impact Factor 3.2  
CiteScore 7.3



[mdpi.com/si/32575](https://mdpi.com/si/32575)

*Energies*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[energies@mdpi.com](mailto:energies@mdpi.com)

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





# Energies

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.2  
CiteScore 7.3



[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)