



*energies*



an Open Access Journal by MDPI

## Design, Analysis and Control of Power Electronic Converters for High-Power Applications

Guest Editors:

**Dr. Derrick Holliday**

Department of Electronic and Electrical Engineering  
Department, University of Strathclyde, Glasgow G1 1XW, UK

**Dr. Agusti Egea-Alvarez**

Department of Electronic and Electrical Engineering, University of Strathclyde, Glasgow G1 1XW, UK

Deadline for manuscript submissions:

**closed (20 June 2021)**

### Message from the Guest Editors

Dear Colleagues,

Innovative, complex converter topologies, such as modular multilevel converters, are already widely deployed in HVDC and MVDC systems, where they offer reduced losses, increased controllability and efficiency, and significantly improved harmonic performance when compared to other converter topologies. However, research on wide bandgap semiconductor switches, advanced converter topologies, and control has shown that power electronic converters could also prove viable and advantageous for other high-power applications including large electrical drives, aerospace, and transport. This Special Issue invites articles that provide novel insights into the design, analysis, and control of new power electronic converters for high-power applications.



[mdpi.com/si/61262](https://mdpi.com/si/61262)

# Special Issue



# energies



an Open Access Journal by MDPI

## Editor-in-Chief

### Prof. Dr. Enrico Sciubba

Department of Mechanical and  
Aerospace Engineering,  
University of Roma Sapienza, Via  
Eudossiana 18, 00184 Roma, Italy

## 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.

## 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)

## Contact Us

---

*Energies* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/energies](http://mdpi.com/journal/energies)  
[energies@mdpi.com](mailto:energies@mdpi.com)  
[X@energies\\_mdpi](https://twitter.com/energies_mdpi)