Special Issue

Power Converters: Modeling, Control, and Applications in Power Electronics

Message from the Guest Editors

The current energy transition to a sustainable society has propelled the rapid development of novel technologies, such as electric vehicles, fast-charging stations, more efficient renewable energy systems, large-capacity storage energy systems, etc. All these technologies rely on power electronics converters, which have imposed new challenges in terms of topology, design, and control. Topics of interest for this Special Issue include but are not limited to, those described in the keywords. Keywords:

- high voltage ratio DC-DC power converters
- bidirectional power converters
- single- and three-phase inverters for off- and on-grid applications
- single- and three-phase rectifiers
- multi-level converters for low powers
- steady-state analysis oriented to the optimization of converters
- dynamic modelling oriented to the control of converters
- new control techniques for power electronics converters
- application of new semiconductors technologies
- emerging technologies in power electronics: electric vehicles, charging stations, energy storage system

Guest Editors

Prof. Dr. Telles Brunelli Lazzarin

Dr. Levy Ferreira Costa

Prof. Dr. Carlos Henrique Illa Font

Deadline for manuscript submissions

closed (27 June 2023)



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

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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

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