

Topical Collection

Editorial Board Members' Collection Series: Advances in Power Converters

Message from the Collection Editors

The energy transition is based on a wide electrification process, and power converters are key elements in this transition. In the actual power systems, power converters allow exploitation of renewable energy sources. Additionally, power converters enhance distributed power generation systems (DPGs) with control capabilities, flexible operation, ancillary features, and regulation possibility. Power converters also have the same pivotal role in transportation electrification. In this field, light electric vehicles (EVs), more electric aircrafts (MEAs), electric ships, etc. are typical applications. Coordinated operation of power converters and storage systems is required in this scenario; as a consequence, hierarchical and cascade control systems are applied with this purpose. The Collection aims to collect innovative contributions in the field of power converters in reference to topologies, control systems, operation, and innovative applications. Analytical and assessment papers as well as case studies are relevant to the topic.

Collection Editors

Dr. Rosa Anna Mastromauro

Department of Information Engineering (DINFO), University of Florence, 50139 Florence, Italy

Dr. Luigi Piegari

Department of Electronics, Information and Bioengineering, Politecnico di Milano, piazza Leonardo da Vinci 32, 20133 Milan, Italy



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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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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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