Special Issue

Recent Challenges and Advances in Power Converters for Emerging Renewable Energy Integrated Systems

Message from the Guest Editors

Renewable energies have become a core and essential part of current and future grids thanks to power electronics converters, which enable this wide spread of renewable energy systems and ease their integration into DC or AC grids. Power electronics topologies designed for renewable energy integration are designed to be compact, cost less and exhibit high efficiency to satisfy consumer desire. However, several barriers still stand in the way of massive implementation of this technology, and the associated enabling developments are becoming of paramount importance. These include size optimization, cost, efficiency, flexibility, fault tolerant, protection, and advanced interaction with the grid. This Special Issue aims to encourage researchers to share new developments and potential solutions addressing the aforementioned and other related topics aiming to make the most out of these emerging technologies.

Guest Editors

Dr. Omar Abdel-Rahim

Dr. Sherif Dabour

Dr. Wesam Rohouma

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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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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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