electronics

an Open Access Journal by MDPI

IMPACT FACTOR 2.6

CITESCORE 5.3

Advanced Multilevel Power Converters for Grid Integration of Renewable Energy Resources

Guest Editors:

Dr. Hossein Dehghani Tafti
Department of Electrical, Electronic & Computer Engineering, University of Western Australia, Perth 6009, Australia

Dr. Georgios Konstantinou
School of Electrical Engineering and Telecommunications & Australian Energy Research Institute, The University of New South Wales, Sydney, NSW, Australia

Dr. Christoper D. Townsend
Department of Electrical, Electronic and Computer Engineering, The University of Western Australia (M018), 35 Stirling Highway, Perth, WA 6009, Australia

Deadline for manuscript submissions:
closed (31 August 2022)

Message from the Guest Editors

Dear Colleagues,

Power systems across the globe are experiencing an increased integration of renewable energy resources demanding the power system operators to explore and enforce new grid-forming and grid-supporting regulations and requirements to ensure the quality and reliability of the grid. Hence, renewable energy systems are required to be equipped with advanced features and control strategies to provide the required supporting functionalities to the grid such as power reserve control, frequency response, reactive power control, and so on. Given power electronic technologies will, therefore, be responsible for the control of power between most renewable sources, energy storage devices and the grid, they will play a key role in the upcoming grid-transformation process. Multilevel converters have become a standard for such applications as medium voltage drives, HVDC and FACTS, and are promising for the integration of renewable energy sources and energy storage systems. Therefore, this Special Issue focuses on advanced multilevel converters for the integration of renewable energy resources.

mdpi.com/si/87366

Special Issue

electronics

IMPACT FACTOR 2.6

CITESCORE 5.3

an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Flavio Canavero
Department of Electronics and Telecommunications, Politecnico di Torino, 10129 Torino, Italy

Message from the Editor-in-Chief

Electronics is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guest-edited by leading experts in selected topics of interest.

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), CAPlus / SciFinder, Inspec, and other databases.
Journal Rank: JCR - Q2 (*Physics, Applied*) / CiteScore - Q2 (*Control and Systems Engineering*)

Contact Us

Electronics Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/electronics
electronics@mdpi.com
𝕏@electronicsMDPI