

## Special Issue

# New Insights into Design and Control of Modular Multilevel Converters for Energy Storage and Drives

### Message from the Guest Editors

Modular multilevel converters (MMCs) are a promising class of converter topologies that can perform multiple conversions concurrently, showing great redundancy and multiple degrees of freedom in their control structure. In the past 10 years, multiple solutions involving MMCs have been proposed, including spacing from motor drives, storage system integration, and photovoltaic (PV) system integration. Researchers and experts in the field are encouraged to submit their original research contributions, survey papers, or tutorials for review in this Special Issue. The topics of interest include, but are not confined to, the following:

- New modular multilevel converters topologies;
- Storage integration by means of MMCs;
- Integration of PV systems with MMCs;
- Hydrogen generation using MMCs;
- Fast charging stations for electric vehicles based on MMCs;
- Modulation techniques;
- Control techniques for converter balancing;
- Innovative motor drives.

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### Guest Editors

Dr. Davide De Simone

Department of Electronics, Information and Bioengineering, Politecnico di Milano, 20133 Milano, 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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### Deadline for manuscript submissions

closed (20 July 2025)



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

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### Editor-in-Chief

Prof. Dr. Enrico Sciubba  
Department of Mechanical and Industrial Engineering, University  
Niccolò Cusano, 00166 Roma, Italy

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