

Special Issue

Advances in Power Converters and Inverters

Message from the Guest Editors

As society moves towards carbon neutrality, power converters and inverters have become ever-more important for enhancing energy efficiency, supporting renewable energy integration, ensuring grid stability, and advancing transportation electrification. To this end, we invite you to submit original research articles, comprehensive review papers, and insightful case studies to this Special Issue, which will gather pioneering research and technological innovations focusing on the latest advancements in power converters and inverters. Topics of interest for this Special Issue include, but are not limited to, the following:

- Innovative Converter and Inverter Designs
- Wide-Bandgap Power Semiconductors and their applications
- Grid-Forming Converters and their Control
- Machine Learning and Artificial Intelligence in Power Electronics
- DC-DC Converters for AI Computing and Data Centers
- Energy Storage Integration
- High-Power Converters and Multilevel Converters
- Transportation Electrification
- Advanced Control Techniques
- Integration with Renewable Energy

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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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