

## Special Issue

# Control and Optimization of Power Converters

### Message from the Guest Editors

The issue will feature cutting-edge research on both theoretical advancements and practical implementations of control and optimization techniques in power converters. Detailed topics include, but are not limited to, the following:

- Advanced control strategies for power converters;
- Optimization techniques in power converters for topology design, efficiency improvement, component sizing, and parameter tuning;
- Applications of power converters in renewable energy-based microgrids and grid integration;
- High-efficiency power conversion based on wide-bandgap semiconductor devices and high-frequency magnetics and passive component optimization;
- Condition monitoring and diagnostics, fault detection, protection, and EMI/EMC mitigation techniques for power converters;
- Power converters for electric vehicles (EVs), hybrid electric vehicles (HEVs), wireless power transfer (WPT), and wireless charging systems;
- Power converters for data center power supply optimization;
- Power converters for more/all-electric aircrafts and defense power electronic applications.

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### Guest Editors

Prof. Dr. Fei Deng

Prof. Dr. Xiangke Li

Dr. Ziheng Xiao

Dr. Zhigang Yao

Dr. Lei Zhang

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### Deadline for manuscript submissions

closed (10 February 2026)



## Energies

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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

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