

## Special Issue

# Optimal Design and Application of High-Performance Power Converters

### Message from the Guest Editors

The power converter has been increasingly employed in numerous innovative areas, including electrical aircraft, electrical ships, electrical vehicles/trains, and new energy power generation systems, among others. This has contributed to advances in the circuit topology, modeling methods, control systems, optimization design, and test tools of current power converters, which are characterized by high efficiency, high power density, and high reliability. This Special Issue aims to present and disseminate the most recent advances related to the theory, design, modeling, control, optimization, and application of all types of power converters. Topics of interest for publication may include, but are not limited to:

- All aspects of DC/DC, DC/AC, AC/AC, AC/DC power converters
- Power converters for electrified transportation
- Power converters for new energy power generation systems
- Novel applications of power converters
- Advanced modeling methods for power converters
- New topology for high-performance power converters
- Advanced control and energy management strategies for power converter systems
- Optimal design for cost-effective power converters

### Guest Editors

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### Deadline for manuscript submissions

closed (20 December 2024)



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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

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