

## Special Issue

# Advances in Modulation, Control and Applications of Grid-Connected Power Converters

### Message from the Guest Editors

This Special Issue explores advancements in modulation, control, and applications of grid-connected power converters, focusing on enhancing efficiency, reliability, and grid-supporting capabilities in the context of renewable integration, electrification of transport, and modernized grid infrastructure. It serves as a bridge between academic research and industrial practice, highlighting innovations in power electronics for next-generation energy systems.

Topics of interest include:

- Advanced Modulation Techniques
- Intelligent Control Strategies
- Wide-Bandgap Semiconductor Applications
- Grid-Forming and Grid-Following Inverters
- Electric Vehicle Charging Infrastructure
- HVDC and FACTS Technologies
- Stability and Fault Ride-Through Capability

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### Guest Editors

Dr. Qingxiang Liu

Dr. Gaowen Liang

Dr. Glen Farivar

Prof. Dr. Shunliang Wang

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### Deadline for manuscript submissions

closed (15 April 2026)



## Electronics

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## About the Journal

### 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 guestedited by leading experts in selected topics of interest.

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### Editor-in-Chief

Prof. Dr. Flavio Canavero

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### Author Benefits

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indexed within Scopus, SCIE (Web of Science), CAPlus / SciFinder, Inspec, Ei Compendex and other databases.

#### Journal Rank:

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#### Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.4 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the second half of 2025).