

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

Guest Editors

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Deadline for manuscript submissions

closed (15 April 2026)



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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.

Editor-in-Chief

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CiteScore - Q1 (Electrical and Electronic Engineering)

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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).