

## Special Issue

# Advanced Technologies in Power Electronics

### Message from the Guest Editors

The field of power electronics is undergoing rapid transformation, driven by increasing demands for energy efficiency, renewable integration, and intelligent control of power systems. We invite original research articles, comprehensive reviews, and case studies that focus on innovative solutions and cutting-edge developments in the design, control, optimization, and application of power electronic systems. Topics of interest include, but are not limited to, the following:

- Advanced topologies of DC–DC, AC–DC, and DC–AC converters;
- High-frequency and high-efficiency converters;
- SiC and GaN-based power devices and modules;
- Control algorithms (model predictive, AI-based, adaptive control);
- Power electronics for renewable energy systems;
- Wireless power transfer and contactless energy systems;
- Power electronics in e-mobility and smart grids;
- EMI/EMC issues, thermal management, and packaging technologies;
- Digital control, real-time implementation, and intelligent algorithms;
- Reliability, fault tolerance, and diagnostics in converter systems.

We look forward to receiving your contributions.

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### Guest Editors

Dr. Gergana Vacheva

Dr. Nikolay Hinov

Dr. Jožef Ritonja

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### Deadline for manuscript submissions

15 August 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

Department of Electronics and Telecommunications, Politecnico di Torino, 10129 Torino, Italy

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### Author Benefits

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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).