Special Issue

Power Electronics in Industry Applications

Message from the Guest Editor

In recent years, power electronic converters have played an important role in industry products for different applications such as plug-in electric vehicles, electric vehicles, renewable energy systems, bidirectional power flow for battery chargers, high-efficiency power supplies, and industry applications. High-efficiency demands in power converters are becoming essential for commercial and industrial power units in various ways. This Special Issue focuses on the development of novel circuit topologies in power electronics. The particular topics of interest include, but are not limited to:

- New trends and technologies for power converters;
- Multilevel converter topologies;
- Energy storage technologies;
- Renewable energy conversion;
- Integration of renewable energy technologies into the DC or AC grid;
- Review of power converter technologies;
- Electric vehicle applications;
- High-efficiency power converters for switching mode power supplies;
- Modulation techniques for power converters;
- Bidirectional power converters;
- Power converters for industry applications.

Guest Editor

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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 guest-edited by leading experts in selected topics of interest.

Editor-in-Chief

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.8 days after submission; acceptance to publication is undertaken in 2.4 days (median values for papers published in this journal in the first half of 2025).

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