

Special Issue

Power Converters and E-mobility

Message from the Guest Editors

Electric mobility, or E-mobility for short, has been an ever-growing sector including electric and hybrid-electric vehicles, ship propulsion systems, forklifts, electric cranes, railway systems, and electric planes. Subject can be observed from the ecological or economic point of view, where E-mobility benefits appear in comparison to traditional approaches (e.g., more electric aircraft). Supporting research in semiconductor materials and semiconductor devices is welcomed as well, as are all the other related topics including flexible microprocessor systems and rapid prototyping tools which are marking our time as a time of change in many fields. In this light, researchers are invited to publish their research involving different topologies of (bidirectional) power converters in variety of applications for E-mobility. The topics of interest include, but are not limited to:

- Bidirectional power converters
- Power inverters
- V2G converters
- Electric drives
- Railway systems
- More electric aircraft
- Ship propulsion systems
- Trends in e-mobility
- Electric cranes
- SiC and GaN devices
- Magnetic materials

Guest Editors

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Deadline for manuscript submissions

closed (31 December 2022)



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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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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).