

Special Issue

Applications of Power Converter in Electric Transportation and Renewable Energy Harvesting

Message from the Guest Editors

To overcome energy crises and promote environment protection, efficient utilization of renewable energy and transportation electrification have become two important scientific research topics, in which power electronics converters are playing a vital role. Therefore, the proposed Special Issue will focus on the “Applications of Power Converter in Electric Transportation and Renewable Energy Harvesting”. We are sincerely seeking contributions from authors around the world to share their innovative results of their latest findings with other researchers and related industries. Topics include but are not limited to the following:

- On-board and off-board battery chargers;
- Vehicle-to-grid (V2G) techniques;
- MPPT for wind/photovoltaic/thermo-electric/fuel-cell generation;
- Bi-directional DC/DC converters for charging/discharging, static electronic transformers;
- Motor drives for electric vehicles, electric vessels and electric aircraft;
- High-gain converters for renewable energy harvesting;
- Battery management systems and battery storage systems.

Guest Editors

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Deadline for manuscript submissions

closed (30 November 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 guest-edited by leading experts in selected topics of interest.

Editor-in-Chief

Prof. Dr. Flavio Canavero

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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).