

Special Issue

Advancing Sustainability in Power and Energy Systems: The Role of Electrical Transportation and Storage

Message from the Guest Editors

This Special Issue aims to provide a comprehensive overview of recent advances and challenges in the integration of electrical transportation and energy storage into power systems. Research areas may include (but are not limited to) the following:

- Integration of electric vehicles into smart grids;
- Advances in energy storage technologies and their applications;
- Energy management systems for sustainable transportation;
- Impact of renewable energy sources with storage on power system stability;
- Optimization of power distribution networks with storage and electric vehicles;
- Policy and economic considerations for electrical transportation and energy storage;
- Exploring the role of distributed energy resources, including rooftop solar, in conjunction with energy storage and electrical transportation;
- Examining the potential of electric vehicles as mobile energy storage units contributing to grid stability;
- Innovations in electric vehicle charging stations, including wireless and ultra-fast charging solutions;
- Environmental and economic impacts of storage production, usage, and recycling

Guest Editors

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Deadline for manuscript submissions

closed (15 September 2025)



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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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