

Special Issue

Improving Sustainability: Energy Management in Electrical Transportation

Message from the Guest Editor

EVs are increasingly popular environmentally-friendly vehicles, yet their widespread adoption poses challenges in energy management. This Special Issue provides a platform for researchers, engineers, and practitioners to share insights on battery management, charging infrastructure, energy efficiency, renewable energy integration, and the EV ecosystem. Key Themes:

- Battery Management Systems (BMS): Advanced techniques optimizing battery health, lifespan, and EV performance.
- Charging Infrastructure: Developments in fast-charging, wireless charging, and smart grid integration for convenient and eco-friendly EV charging.
- Energy Efficiency: Strategies to enhance EV energy efficiency through regenerative braking and powertrain design.
- Renewable Energy Integration: Innovative approaches to integrating solar, wind, and other renewable energy into the EV ecosystem.
- Electric Mobility Ecosystem: Discussions on V2G technology, energy storage solutions, and EV adoption's impact on the grid.

Original research articles, reviews, and case studies are invited to contribute to shaping a sustainable future in electrical transportation.

Guest Editor

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Deadline for manuscript submissions

closed (31 July 2024)



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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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provided to authors approximately 16.8 days after
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days (median values for papers published in this journal in
the first half of 2025).