

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

Dr. Angelo Accetta

Institute for Marine Engineering (INM), Section of Palermo, National Research Council of Italy (CNR), 90146 Palermo, Italy

Deadline for manuscript submissions

closed (31 July 2024)



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Electronics
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
electronics@mdpi.com

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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

Prof. Dr. Flavio Canavero

Department of Electronics and Telecommunications, Politecnico di Torino, 10129 Torino, Italy

Author Benefits

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Rapid Publication:

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).