



Improving Sustainability: Energy Management 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

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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.





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Editor-in-Chief

Prof. Dr. Flavio Canavero

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

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.

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Electronics Editorial Office
MDPI, St. Alban-Anlage 66
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