

## Special Issue

# Smart Charging and Grid Integration for Sustainable Electric Transportation

### Message from the Guest Editors

By exploring diverse topics, this Special Issue aspires to provide a comprehensive understanding of the evolving landscape of EV charging infrastructure and contribute valuable insights to facilitate the transition toward sustainable and grid-integrated transportation. Topics of interest include, but are not limited to, the following:

- Optimal charging station power supply and energy management;
- Advance bidirectional electric vehicle energy management strategies (V2G, V2B, V2H, V2V);
- Utilization of EVs as flexible assets for enhanced grid ancillary services;
- Strategies for integrating renewable energy sources into eV charging infrastructure;
- Development of EV charging pricing models and their effect on grid operation;
- Solutions for mitigating congestion and optimizing grid utilization;
- Implementation of mathematical programming in smart charging;
- Machine learning applications in EV charging—operation optimization and forecasting;
- Future prospects and policy implications.

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### Guest Editors

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### Deadline for manuscript submissions

closed (31 October 2025)



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## Message from the Editor-in-Chief

I encourage you to contribute a research or comprehensive review article for consideration for publication in Sustainability, an international open access journal which provides an advanced forum for research findings in areas related to sustainability and sustainable development. The journal publishes original research articles, reviews, conference proceedings (peer reviewed full articles) and communications. I am confident you will find the journal contributes to enhancing understanding of sustainability and fostering initiatives and applications of sustainability-based measures and activities.

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## Editor-in-Chief

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