



Smart Charging and Grid Integration for Sustainable Electric Transportation

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Deadline for manuscript
submissions:

28 February 2025

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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Message from the Editor-in-Chief

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