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Optimization for Charging and Discharging of Electric Vehicles

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Deadline for manuscript
submissions:

closed (15 March 2023)

Message from the Guest Editors

This Special Issue aims to look at the present and future of electric mobility and invites original contributions, including review papers, related (but not limited) to the following topics:

- Charge and discharge optimization algorithms for G2V, V2G, V2H, V4G, and V2V
- Power flow, quality, reliability, and security analysis of smart grids
- Electromobility in the context of economic and environmental issues
- Advanced energy management solutions for integrating the charging and discharging of EVs
- Analyzing the flexibility of charging options
- Assessing the load impact of EV penetration and smart charging scenarios
- Charging station selection and load balancing
- Blockchain-based energy management solutions for EVs
- Green hydrogen and fuel cell vehicles
- Game theory approaches to V2V, V2G, and G2V energy trading
- Machine learning and neural network models for electric load, charging cost, renewable generation
- Renewable energy-based charging stations and charging EVs
- Communication network analysis for EVs
- Battery state-of-charge and state-of-health monitoring and control
- Demand-response management for electric mobility



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Special Issue



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Message from the Editor-in-Chief

Energies is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

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