Special Issue

Grid-Connected Electric Vehicles: Charging and Management

Message from the Guest Editors

This Special Issue will explore the difficulties and key issues in the interaction between large-scale EVs and smart grids and look toward future development directions. Topics of interest for publication include but are not limited to the following:

- Modeling and prediction technologies for EV charging demand;
- Optimization and control technologies for charging facility configuration in residential areas;
- Operation and control technologies for public charging stations;
- Coordinated optimization control technology of EV clusters and distributed new energy generation;
- Optimization decision-making methods for EV charging aggregators participating in the spot electricity market and auxiliary service markets;
- Supply–demand relationship and multi-agent profit models in EV–grid interaction;

Orderly charging and discharging incentive mechanisms, market models, charging and swapping guidance strategies, and operation technologies for EVs.

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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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