Special Issue

Future Smart Energy for Electric Vehicle Charging

Message from the Guest Editor

Finding solutions that optimize the management of energy demand from electric vehicles and alternative methods of power generation are two strategies that contribute to the overall success of the energy transition. With this goal in mind, this Special Issue aims to analyze approaches for the smart charging of electric vehicles that can be optimized for better results. The focus is on using renewable energy, reducing peak electricity demand, and maintaining the quality of energy while meeting the needs of electric vehicle drivers. We are also interested in work that considers fuel cell electric cars. Topics of interest for publication include, but are not limited to:

- Smart management of private and public charging demand;
- Integration with renewable sources and storage management: potential, critical issues, enabling technologies, and grid integration;
- Analysis of the bidirectional functionalities of vehicle-to-grid and vehicle-to-home;
- Smart charging for power regulation, grid stability, power quality, and reliability;
- Local energy market and neighborhood management for district infrastructure.

Guest Editor

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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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