Special Issue

Electric Vehicles for Sustainable Transport and Energy: 2nd Edition

Message from the Guest Editors

This Special Issue aims to explore innovative research and cutting-edge developments that can contribute to the sustainable transformation of transport and energy sectors. The scope of this Special Issue includes, but is not limited to, the following:

- EV Powertrain Modeling: in-depth analysis of electric vehicle powertrain components, such as batteries, motors, and control systems, using advanced modeling and simulation approaches.
- Energy Management and Optimization: research on energy management strategies, charging infrastructure, and optimization techniques to enhance the efficiency and reliability of EVs within smart grid systems.
- Vehicle-to-Grid (V2G) Integration: investigations into bidirectional power flow and the potential for EVs to serve as distributed energy resources, supporting grid stability and demand response.
- Life Cycle Assessment (LCA) of EVs: studies on the environmental impact of EVs throughout their entire life cycle, including manufacturing, usage, and end-of-life considerations.
- EV Fleet Modeling: application of simulations to study the impact of electrified fleets on urban transportation systems and the environment.

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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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