Special Issue

Analysis of Energy Consumption and Energy Efficiency of Electric Vehicles

Message from the Guest Editor

Topics of interest for publication include, but are not limited to, the following:

- Energy consumption modeling and simulation, including driving cycle analysis, vehicle dynamics, and environmental factors.
- Real-world energy consumption analysis based on on-road testing and data collection.
- Impact of driving behavior, traffic conditions, and weather on EV energy consumption.
- Powertrain efficiency, including electric motor design, power electronics, and transmission systems.
- Optimization of energy management strategies, including regenerative braking, thermal management, and auxiliary systems.
- Innovative technologies for improving EV energy efficiency, such as lightweight materials, advanced control algorithms, and novel powertrain architectures.
- Battery performance and management systems, including battery aging, thermal management, and state-of-charge/state-of-health estimation.
- Charging infrastructure and its impact on energy efficiency.
- Impact of smart grid integration and vehicle-to-grid (V2G) technologies on energy consumption.

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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