Special Issue

Electric Vehicles Power Train, Storage and Charging: Design, Modelling and Simulation

Message from the Guest Editor

This Special Issue aims to provide the current state-of-the-art technology in the design of the power train, an updated status of this field, and to cover new aspects and new solutions. Topics of interests include (but are not limited to):

- Advancements in powertrain architectures;
- Power electronic converters such as inverters, onboard chargers, and DC/DC converters;
- Wired and wireless charging systems;
- Reliability and lifetime estimation of powertrain subsystems and components;
- Thermal management solutions for the drive unit, onboard power electronics, and battery modules;
- System level optimization considering performance, cost, efficiency, and reliability;
- Battery management system;
- Electrical and mechanical sensing technologies;
- Safety requirements and protection solutions;
- Recycling of powertrain components;
- Design of motors, including design for torque ripple reduction;
- Design for wide-bandgap (WBG) drives.

Guest Editor

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Deadline for manuscript submissions

closed (25 May 2023)

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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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