Special Issue

Electric Vehicle Efficient Power and Propulsion Systems

Message from the Guest Editors

Vehicle electrification is one of the main trends identified, with a growth capacity of 15% until 2030. In the coming years, many internal combustion engine vehicles, hybrid vehicles, and all-electric vehicles will be on the road as consumers switch to more efficient and environmentally friendly propulsion systems. To remain competitive in this electrically powered future, carmakers and researchers are investing in a wide range of propulsion technologies to increase efficiency and power capacity, developing the next generation of powertrains. A reliable EV solution should therefore harness the advantages of more efficient and powerful energy storage systems, including multiple sources through their effective management, new improved power converters, including the new generation of switching devices, and explore advanced configurations for electric motors, reducing the use of rare-earth materials.

This Special Issue encourages researchers working in this field to share their latest developments in electric-vehicle-efficient power and propulsion systems, for road, rail, and air vehicles, both manned and unmanned.

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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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