

Special Issue

Electric Vehicles: Latest Advances and Prospects for Sustainable Energy Systems and Sustainable Mobility

Message from the Guest Editors

In recent years, electric vehicle sales have surged, replacing both light- and heavy-duty vehicles. This trend extends to individual mobility solutions, including mopeds, bicycles, and more.

This Special Issue focuses on the most recent technological breakthroughs, specifically in the design and performance of electric vehicle propulsion systems. We welcome contributions to energy management algorithms, encompassing propulsion system components and considerations for driving and comfort constraints, such as vehicle HVACs. Additionally, research on battery advancements, charging technologies, and the life cycle performance of these technologies is encouraged.

The real-world operation of electric vehicles, whether for individual or professional mobility purposes, must be scrutinized. The usage of electric propulsion in different areas of the transportation sector requires a shift from the typical energy sources to electricity. Consequently, the growing energy demand stemming from this trend will necessitate additional support from the electricity network, highlighting the imperative for designing a more robust and resilient energy system, whether on a local or national scale.

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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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