

Special Issue

Electric Vehicles: Simulation, Modeling and Optimization

Message from the Guest Editor

The ongoing global transition toward sustainable energy positions electric vehicles (EVs) at the forefront. Three key factors lead to this transition: tightening environmental regulations, rising consumer demand for clean transportation, and rapid technological advances in the battery industry. In recent years, successive breakthroughs in energy storage and the power battery industry have delivered unprecedented growth in the EV market. These innovations are fundamentally reshaping the global automobile industry, leading to new approaches to vehicle design, energy management, and system integration. This Special Issue compiles cutting-edge research on computational and experimental approaches that expedite the development of the EV industry by bridging the gap between theory and practice; highlights methodologies with high commercialization potential; and serves as a forum offering innovative solutions that address both current limitations and future requirements in electric mobility.

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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