

Special Issue

Challenges and Research Trends of Energy Management

Message from the Guest Editors

We cordially invite scholars and experts worldwide to share theoretical research achievements and engineering application experiences, collectively driving the innovation and development of intelligent energy management technologies and supporting the transformation and upgrading of the new energy vehicle industry. Topics of interest include, but are not limited to, the following: Optimal control strategies for multi-energy powertrain systems; Intelligent energy management algorithms; Information utilization in energy management; Vehicle energy flow analysis; Design of novel topology-based energy management systems; Dynamic allocation and real-time optimization of vehicle energy flow; Coordinated control of thermal-electric coupling management systems; Intelligent state-of-health (SOH) assessment and lifespan extension strategies for batteries; Vehicle thermal management; Digital twin-based simulation and optimization of energy systems; Hardware-in-the-Loop (HIL) testing and real-vehicle validation methodologies.

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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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