# Special Issue

# Electric and Hybrid Vehicles: Technology Trends, Challenges and Opportunities—2nd Edition

## Message from the Guest Editors

Electric vehicles (EVs) have attracted global interest in science and industry as they are expected to be the future of transportation in the coming years. The global stock of electric vehicles is expected to reach 130 million by 2030. The increased number of EVs entails a set of important questions about the operation, stability, feasibility, and power quality of energy systems. In addition, the transition to electric road transport technologies requires new trends in the design and control of electric vehicles to offer improved performances and capabilities. Moreover, the low autonomy of EVs calls for the development of sustainable controlled charging processes and easily accessible charging networks. Finally, the expected significant growth in global electricity demand due to the increased number of EVs leads to the modernization of energy grids, such as the adoption of green renewable energy sources and energy storage systems that can improve the reliability of electric power systems. For this Special Issue, we warmly invite the submission of original comprehensive reviews, case studies, and research articles on any topic related to the theme of the call.

## Guest Editors

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Dr. Dimitrios Piromalis

## Deadline for manuscript submissions

closed (15 September 2025)

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# About the Journal

## 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.

## Editor-in-Chief

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