

Special Issue

Transportation Decarbonization: Advanced Vehicle Technologies and Their Social, Economic, and Environmental Impacts

Message from the Guest Editors

In this Special Issue, we are looking for leading research on advanced technologies, industrial strategies and policies for deep decarbonization, and their social and environmental impacts from the vehicle industry. These studies should be quantitative and focus on transportation decarbonization. Relevant topics include:

- Challenges and opportunities in advanced battery materials, electric vehicles, hydrogen fuel-cell vehicles, internal combustion engine using zero-carbon fuels, and other decarbonized technologies in vehicle use;
- Intelligent application and optimization of low- and zero-carbon powertrain technologies combining with electricity (V2X), hydrogen, or other renewable power sources;
- Impacts of autonomous driving and shared mobility on transportation mode choices and decarbonization;
- Lifecycle analysis for improving the measurement of transportation decarbonization;
- Social and environmental impacts and practices of the industrial strategies and government policies on vehicle decarbonization.

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Guest Editors

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Deadline for manuscript submissions

closed (15 April 2023)



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Message from the Editor-in-Chief

I encourage you to contribute a research or comprehensive review article for consideration for publication in Sustainability, an international open access journal which provides an advanced forum for research findings in areas related to sustainability and sustainable development. The journal publishes original research articles, reviews, conference proceedings (peer reviewed full articles) and communications. I am confident you will find the journal contributes to enhancing understanding of sustainability and fostering initiatives and applications of sustainability-based measures and activities.

Editor-in-Chief

Prof. Dr. Steve W. Lyon

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