

Special Issue

Sustainable Progress and Investigation of Alternative Fuels in Hard-to-Electrify Transportation Sectors

Message from the Guest Editors

Dear Colleagues: To address the issue of climate change and achieve a carbon neutral economy, we must eliminate the majority of greenhouse gas (GHG) emissions from all sectors. The transportation sector accounts for a major share of global GHG emissions as it depends heavily on petroleum fuels. In particular, emissions from hard-to-electrify contributors, including heavy-duty vehicles, aviation, and maritime, make decarbonization more challenging. The utilization of sustainable fuels in order to replace petroleum fuels could facilitate the decarbonization of these contributors during the transition toward net zero emissions. Research areas may include (but are not limited to) the following:

- Fundamental combustion characteristics of alternative fuels;
- Combustion and emissions of engines fueling with alternative fuels;
- Life cycle assessment (LCA) and techno-economic assessment (TEA) of alternative fuels for heavy-duty vehicles, aviation, and maritime applications.

I/We look forward to receiving your contributions.

Guest Editors

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Deadline for manuscript submissions

closed (6 July 2024)



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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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