

Special Issue

Integrating Renewable Energy in Transportation: Opportunities and Barriers

Message from the Guest Editor

The world is showing interest in environmental issues and moving toward reducing carbon emissions. In the transportation sector, the proportion of fossil fuels is high, while that of renewable energy is low compared to other sectors. The International Energy Agency's 2050 Net-zero scenario aims to reduce carbon emissions by 90%, with the goal of achieving low or zero emissions by switching to renewable energy or alternative fuels for various means of transportation to build a decarbonized society. The land road transport, aviation, and shipping industries, which account for a large part of carbon emissions, are also trying to reduce their absolute carbon emissions from electricity, hydrogen, and biofuels from existing fossil fuels through various policies.

In this Sustainability Special Issue, we welcome all submissions related to renewable energy and its integration in various transportation sectors on land, air, and sea. We also welcome technical and policy papers on the transportation possibilities in the case of the direct or indirect use of renewable energy and in application areas that are currently impossible but may become feasible in the future.

Guest Editor

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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

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