



Production and Application of Low-Carbon Fuels in Land and Marine Power System

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Message from the Guest Editors

Global concerns over long-term climate change due to anthropogenic-derived carbon dioxide emissions are driving advanced technology development of the production and application of low-carbon fuels. The challenge is great; today, only a small amount of power fuel is low carbon. 10% of fuels must be low carbon by 2030 if we are to satisfy economic growth and—along with other measures—limit global warming to below 2°C. Currently, the possible solutions are biofuels, LNG, hydrogen, methanol, and ammonia. As low-carbon fuel research continues at an unprecedented rate, it is still too early to say which alternative low-carbon fuels will likely win the race, as there are different pathways to achieve decarbonization.

The main goal of this Special Issue is to present state-of-the-art research and innovation, discuss the advancement of alternative low-carbon fuels in land and marine power system, and explore the initiatives to improve the cost-effectiveness, availability, and productivity of low-carbon fuels and the combustion quality, thermal efficiency and emissions reduction of land and marine power system.





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Message from the Editor-in-Chief

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