

Special Issue

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

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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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.

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