



Low-Carbon/Carbon-Free Fuels and Advanced Combustion Strategies

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Message from the Guest Editors

Building a net-decarbonized transportation sector has become a top priority for the world. To meet this goal, transition to low-carbon or carbon-free fuels is one inevitable component of the long-term solution, particularly for systems that require a large power density and long travel distance where electrification is not practical.

Building on this vision, this Special Issue aims to give an overview of the most recent advances in the field of low-carbon/carbon-free fuels and advanced combustion concepts and strategies, as well as their applications in various transportation systems. Potential topics include but are not limited to:

- Low-carbon or carbon-free fuels for future applications;
- Advanced combustion concepts and strategies for on-road/off-road vehicles, transportation/combat aircrafts, space shuttles, and rockets;
- Fundamentals of pyrolysis, oxidation, and combustion of low-carbon or carbon-free fuels;
- Application of low-carbon or carbon-free fuels in light-duty, heavy-duty, and aircraft engines;
- Application of low-carbon or carbon-free fuels in space applications;
- Application of low-carbon or carbon-free fuels in hybrid powertrains.



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Message from the Editor-in-Chief

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