Special Issue

Alternative Fuel Combustion Processes, Characteristics and Reaction Kinetics

Message from the Guest Editors

This Special Issue on "Alternative Fuel Combustion Processes, Characteristics and Reaction Kinetics" aims to explore the latest advancements in the utilization of alternative fuels for combustion processes. Topics of interest include, but are not limited to:

- Experimental and computational studies on the combustion performance of alternative fuels.
- Advanced experimental techniques and their appications for alternative fuel combustion processes, such as in situ optical disgnostics for flames.
- Characterization of physical and chemical properties of alternative fuels, such as laminar burning velocity, iginition delay times, and speciation information in various fundamental combustion systems.
- Experimental, theoretical, and empirical determination of rate constants for dominant reactions of alternative fuel combustion processes, especially with statistical analysis and uncertainty quantifications.
- Validation, development, optimization, or reduction of reaction mechanisms of alternative fuels.
- Comparative analysis of alternative fuels with regard to combustion efficiency and environmental impact, especially based on reaction kinetic understanding.

Guest Editors

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Deadline for manuscript submissions

closed (30 December 2024)

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Editor-in-Chief

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