



## Challenges and Research Trends of Combustion Mechanism

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### Message from the Guest Editor

Energy combustion is of great importance to the engine industry, and thus, accurate chemical kinetic mechanisms of fuel are required for the simulation of modern engine combustion. Therefore, the combustion mechanism of actual fuels and alternative fuels is essential for the combustion chamber design of high-efficiency and low-emission advanced engines. A deep understanding of the combustion mechanism can contribute to the optimization of engine combustor design, exploration of pollutant formation mechanism, shortening of the development cycle, and reduction of research cost. Therefore, it is a great challenge to investigate the combustion mechanism in different conditions.

This Special Issue of *Energies* seeks articles that focus on flame dynamics, plasma and laser ignition, catalytic conversion, combustion mechanism, laser diagnostic, alternative fuels, the chemical kinetic model, as well as combustion and emission of burners and engines.





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## Message from the Editor-in-Chief

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