



Efficient Combustion of Low-Carbon Fuels

Guest Editor:

Dr. Yang Wang

College of Power and Energy
Engineering, Harbin Engineering
University, Harbin, China

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Message from the Guest Editor

As the world continues to grapple with the challenges of climate change and environmental degradation, the search for sustainable sources of energy has become more pressing. Low-carbon fuels have emerged as promising alternatives. However, the efficient combustion remains a key challenge. Fundamental scientific research on combustion behaviors will contribute to the comprehensive understanding of flame development and the realization of efficient combustion.

This Special Issue aims to examine the frontiers of low-carbon fuel combustion, including experiments and numerical simulations of flame behaviors, combustion mechanism, combustion modeling, combustion efficiency, and emissions characteristics. It includes but is not limited to:

- Experimental studies on low-carbon fuels combustion;
- Numerical simulations of combustion and applications of advanced numerical models;
- Applied combustion physics and chemistry, including combustion kinetics thermochemical reactions, heat transfer, and ignition characteristics;
- Flame behaviors of low-carbon fuels combustion;
- Progress in combustion modeling;
- Properties of combustion products;
- Emissions control.

