Special Issue

Efficient Combustion of Low-Carbon Fuels

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.

Guest Editor

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Deadline for manuscript submissions

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About the Journal

Message from the Editor-in-Chief

Fire is an international open-access journal about the science, policy, and technology of fires and how they interact with communities and the environment. *Fire* seeks to provide a forum to help the fire science community convey how we can live with fire in a changing world. *Fire* seeks submissions from interdisciplinary studies that take a pyrogeography perspective of fires occurring in natural, cultural, and industrial landscapes and how they interact with communities in the science-policy interface. *Fire*'s Editorial Board are widely recognized international leaders. The journal emphasizes quality and innovation and has a rigorous peer-review process. I strongly recommend *Fire* for the rapid publication of your innovative research publications and case studies.

Editor-in-Chief

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