Special Issue

Advanced Combustion Technologies and Emission Control: 2nd Edition

Message from the Guest Editor

Against the backdrop of the various perspectives on carbon neutrality, the combustion of low-carbon and zero-carbon fuels has emerged as a potential technical route for the reduction of carbon emissions. This Special Issue is intended to contribute to the development of advanced combustion and emission control technologies for low-carbon and zero-carbon fuels, aiming to promote the study of combustion, pollutant generation, and mitigation mechanisms against the background of the carbon neutrality strategy. This Special Issue will focus on the following topics:

- The fundamental combustion physics and chemistry of low-carbon/zero-carbon fuels and their blends with traditional fuels;
- Studies of the mechanisms involved in and the kinetic modeling of low-carbon/zero-carbon fuel combustion and pollutant emissions;
- Advanced diagnostic technology for low-carbon/zero-carbon fuel combustion;
- Emission control technology for low-carbon/zero-carbon fuel combustion;
- Advanced combustion technologies for low-carbon/zero-carbon fuel utilization;
- Catalytic combustion and emission mitigation for low-carbon/zero-carbon fuels;
- The use of AI for low-carbon/zero-carbon fuel combustion studies.

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Deadline for manuscript submissions

25 September 2025

Energies

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 7.3

mdpi.com/si/236460

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Message from the Editor-in-Chief

Energies is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

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