

Special Issue

Recent Advances in Low-Carbon Fuels and Combustion Strategies for Sustainable Fluid Machinery, Energy Systems and Power Generation

Message from the Guest Editors

Nowadays, it is mandatory to promote scientific research towards efficient and low-carbon energy systems and power generation. This is related to the efforts to meet climate neutrality and a sustainable usage of resources to satisfy an increasing global energy demand. Many power generation technologies are still based on the combustion of fossil fuels; therefore, a revolutionary innovation of such technologies is needed for this epochal turning point in the industrial sector. This Special Issue aims to present recent advances in low-carbon fuels and combustion strategies with a strong shifting from standard fuels to biofuels and e-fuels for the energy generation and transportation sectors, with the aim of decarbonizing and increasing sustainability. Indeed, recent advances in emerging technologies can potentially result in the production and use of fuels tailored to improve combustion efficiency and reduce emissions. The assessment of these benefits will be published in this Special Issue based on comprehensive studies under conditions relevant to industrial and transportation applications.

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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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