Special Issue

Insights into Spray, Combustion, and Flames of Alternative Clean and Bio-Fuels

Message from the Guest Editors

The combustion of conventional fuels is one of the main issues at the centre of the debate and represents a complex task. One possible approach to reduce the carbon footprint is to increase combustion efficiency and use carbon-neutral and/or carbon-free fuels. In addition to the many basic industrial processes (steel, glass concrete, ceramics, chemicals), mobility and heat generation also represent a large area for savings. Improving technology can help reduce harmful impacts. The development of new process chains, new fuels and new thermal processes is an important part of this. Recently, there has been a great deal of interest in the use of low-carbon and/or zero-carbon fuels. These fuels can be produced from bio-sources or renewable energy sources and can significantly improve air quality compared to conventional fuels. The purpose of this Special Issue is to provide an overview of recent advances and a better understanding of new technologies for using low- and zero-carbon fuels. This Special Issue includes articles that address experimental and theoretical work, from fundamentals to combustion 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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