Special Issue

Advances in Analysis and Application of Biofuels, Alternative fuels and Combustion Technology

Message from the Guest Editor

Global decarbonization efforts have become increasingly important in minimizing the consumption of carbon-based fuels. Reducing polluting emissions and optimizing the performance of combustion systems require the development of new combustion techniques, the use of alternative fuels (biofuels, H2, NH3), and a better control of flow and flame within combustion plants. This Special Issue aims to feature original research and review articles, covering relevant and current topics that relate to laboratory and industrial research of various new fuels and combustion technologies. The studies proposed cover recent advances in the science and technologies of burners, furnaces, boilers, and gas turbines. Research on alternative fuels such as biofuel, hydrogen, ammonia, and metallic powders will be included in this Special Issue. Additionally, CO2 capture and pollutant emissions such as NOx, CO, particulate matter, and their reduction methods will also be discussed in this Special Issue. The works proposed here will be based on different means, theoretical calculations, numerical modeling, and experimental measurements.

Guest Editor

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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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