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Alternative Fuels for Advanced Internal Combustion Engine Technologies, Thermodynamic and Emission Assessment

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Message from the Guest Editors

Dear Colleagues,

Due to global climate change, concomitant regulations, and the declining fossil fuel resources, it will become necessary in the coming years to introduce new fuels with a reduced carbon footprint into combustion systems in stationary, automotive and aircraft engines. Possible candidates for this are green fuels such as hydrogen, ammonia, methanol, and their derivatives. However, their use in sustainable development of ICE raises a number of problems due to the different properties of these fuels in terms of ignition temperature, combustion temperature, flame propagation rate, reaction kinetics, or flame shape.

Taking into account these challenges, present a Special Issue of Sustainability entitled: "Alternative Fuels for Advanced Internal Combustion Engine Technologies, Thermodynamic and Emission Assessment". The purpose of the Issue is to present recent scientific research results and solutions from the industrial sector that seek to introduce decarbonized fuels for the sustainable development of ICE combustion systems.

We look forward to receiving your contributions.









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Message from the Editor-in-Chief

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