



Advances in Combustion and Energy Sciences for CO₂ Reduction in Internal Combustion Engines

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Message from the Guest Editor

Internal Combustion Engines (ICE) are the most widespread technology used for energy supply in transport by far, but they are considered one of the first sources of environmental pollution. So different strategies to reduce in-cylinder emissions together with high efficiency have been widely studied and can be lumped into the category of Low Temperature Combustion. Together with these new injection/combustion concepts, great efforts have been also made in air loop management and after-treatment systems. In the same way, energy recovery strategies such as Organic–Rankine Cycles try to offer a solution in the current ICE’s context.

This Special Issue warmly welcomes scientific and technically advanced works highlighting any of the topics surrounding ICEs. In particular, this Special Issue is focused on research works that maximize current ICE’s efficiency promoting CO₂ reduction while considering also the fulfilment of emissions legislation.

Keywords

CO₂ reduction on ICE’s
pollutant emissions reduction on ICE’s
new injection and combustion processes for ICE’s
new air loop architectures for ICE’s
new after-treatment solutions for ICE’s





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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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