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Advances in Combustion and Thermodynamics of Internal Combustion Engine

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Deadline for manuscript submissions:

closed (22 October 2022)

Message from the Guest Editors

Dear Colleagues,

Advanced combustion modes and novel thermodynamic cycles are important aspects of achieving high-efficiency, clean, and low-carbon development of internal combustion engines. Under the background of carbon neutrality, whether it is to continuously break through the thermal efficiency limits or improve the comprehensive thermal efficiency of variable operating conditions, the combustion of advanced engines will move towards extreme operating conditions, which will result in combustion instabilities and irregular combustion problems.

This Special Issue aims to present and disseminate the most recent advances related to the combustion theory, combustion technologies, ignition technologies, combustion experiments and simulations, advanced thermodynamic cycles, low-carbon, and carbon-neutral fuels, pre-ignition and engine knock, and conventional and non-conventional emissions of internal combustion engines.

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Guest Editors



mdpi.com/si/117228

Special Issue



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Message from the Editor-in-Chief

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