

Special Issue

Advances in Combustion and Thermodynamics of Internal Combustion Engine

Message from the Guest Editors

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.

Guest Editors

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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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