Special Issue

Advanced Modeling and Experimental Methods for Engine Combustion Analysis

Message from the Guest Editor

Great advances in modeling and experiments have enabled a rapid increase in the level of our understanding of engine combustion. Due to this, in both compression ignition (CI) and spark ignition (SI) engines, we now understand much more of the in-cylinder phenomena as compared to the situation 20 years ago. On the other hand, despite the recent advent of electronic vehicles, we will still need internal combustion engines for a long time to come. In fact, the level and impact of engine-combustion-related research have been increasing—a trend that is also related to the great efforts and international collaboration within, for example, the Engine Combustion Network (ECN). Despite these extensive efforts and the international collaboration, there remain pending issues related to, e.g., combustion efficiency and emissions. These issues need to be resolved in order for next-generation CI and SI engines to gain public acceptance. This Special Issue will focus on both CI and SI combustion analyzed with advanced modeling and experimental methods.

Guest Editor

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Deadline for manuscript submissions

closed (30 June 2021)

Energies

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 7.3

mdpi.com/si/32793

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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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