Special Issue

Advanced Techniques for Low/Zero-Carbon Combustion in Internal Combustion Engines

Message from the Guest Editor

The reduction in fuel consumption and emissions for internal combustion engines (ICEs) is always the goal of researchers and manufacturers. The applications of low-/zero-carbon fuels, carbon-neutral biofuels, and synthetic fuels in ICEs can also benefit carbon reduction. Research is needed to offer efficient utilization of these alternative fuels for vehicles, ships, and power generation. In addition, the related advanced technologies including engine after-treatment, thermal and energy management, real-time combustion control, and so on, are of great importance for future engines as well. Researchers are invited to submit original research papers and review articles which will make efforts to deal with the topics of interest. The topics in this Special Issue include but are not limited to:

- Alternative fuels;
- Advanced combustion modes;
- Combustion and emissions chemistry;
- Optimization of performance and emissions;
- After-treatment technology and systems;
- Engine thermal and energy management;
- Engine combustion control;
- Fuel injection systems and spray technology.

Guest Editor

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Deadline for manuscript submissions

closed (30 June 2022)

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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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