

Special Issue

Advanced Research on Internal Combustion Engines and Engine Fuels

Message from the Guest Editors

Internal combustion (IC) engines serve as the main power devices that widely applied in the fields of transport, engineering machinery, stationary power generation and continue to evolve towards the goal of higher efficiency and lower environmental impacts. On the other hand, advanced fuels with specific properties can offer even more potentials in engine combustion and emissions improvements. In addition, zero- and low-carbon fuels also require a dedicated engine design to fulfill their potential in effective reduction in IC engine carbon emissions. In this context, this Special Issue is dedicated to the frontiers in engine combustion and fuel research, with emphasis on the co-development of engines and their fuels. Topics of interest include, but are not limited to:

- Advanced engine combustion;
- Engine combustion improved by fuel additives or biofuel blends;
- Application of zero-/low-carbon fuels to IC engines;
- Interactions of engine combustion and fuel;
- Injection and spray process for advanced fuels;
- Combustion fundamentals and chemical kinetics for advanced fuels;
- Aftertreatment system for engines with advanced fuels.

Guest Editors

Dr. Zongyu Yue

State Key Laboratory of Engines, Tianjin University, Tianjin 300072, China

Prof. Dr. Haifeng Liu

State Key Laboratory of Engines, Tianjin University, Tianjin, China

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
energies@mdpi.com

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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.

Editor-in-Chief

Prof. Dr. Enrico Sciubba

Department of Mechanical and Industrial Engineering, University
Niccolò Cusano, 00166 Roma, Italy

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