

Special Issue

New Fuels and Advanced Combustion Modes for Innovative Internal Combustion Engines: 2nd Edition

Message from the Guest Editors

The environmental impact of ICEs can be reduced, exploiting new fuels and investigating innovative combustion modes. Carbon-free fuels (hydrogen and ammonia), low-carbon fuels (methane, methanol, etc.), e-fuels, and biofuels can strongly contribute to reduce greenhouse gas and pollutant emissions. Considering both conventional and non-conventional fuels, advanced combustion strategies (HCCI, RCCI, TJI, etc.) can improve the energy conversion efficiency. This Special Issue aims to present and disseminate the most recent advances related to the design, experimentation, and modeling of conventional and innovative internal combustion engines fueled by both conventional and new fuels. Topics of interest for publication include but are not limited to:

- Potential and limits of new fuels in ICEs;
- Innovative combustion modes (HCCI, RCCI, TJI, etc.);
- Novel developments of conventional combustion modes (SI and CI);
- Developments of fuel injection systems;
- Well-to-wheel and life cycle assessment of ICE-based vehicles running with both conventional and new fuels.

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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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