Special Issue

Alternative Fuels, Combustion and Emissions of Internal Combustion Engines

Message from the Guest Editors

This Special Issue seeks to highlight innovative solutions supporting the transition toward cleaner combustion technologies and lower-emission transport systems through using sustainable and alternative fuels. Authors are encouraged to submit original research articles, review papers, and case studies addressing (but not limited to) the following topics:

- Alternative fuels for internal combustion engines, including biofuels, e-fuels, hydrogen, ammonia, alcohols, and fuel blends;
- Combustion processes and advanced combustion strategies in spark-ignition and compression-ignition engines;
- Fuel properties and their influence on combustion characteristics and engine emissions;
- Advanced fuel injection systems and combustion control techniques;
- Engine optimization for low-emission and high-efficiency operation using alternative fuels;
- Aftertreatment systems and exhaust gas emission mitigation technologies;
- Experimental and numerical studies of combustion and emission processes;
- Artificial intelligence and data-driven approaches for combustion analysis and emission prediction;
- Environmental impact and decarbonization potential of alternative fuels in transport applications.

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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