

Special Issue

Energy Conversion Processes with Hydrogen and Alternative Fuels in Internal Combustion Engines

Message from the Guest Editors

This Special Issue invites original research articles, reviews, and perspectives that provide scientific insights and solutions focusing on the energy conversion processes of hydrogen and alternative fuels in internal combustion engines, as well as related systems. Topics include the following:

- Hydrogen uses in ICES;
- Effects of alternative/synthetic fuels (e-fuels, ammonia, methanol, etc.) on ICE performance and emissions;
- Dual-fuel or hybrid fuel strategies and energy conversion optimization using hydrogen and alternative fuels;
- Advanced combustion modes and control strategies for hydrogen and alternative fuels;
- Alternative methods for optimizing backfire, pre-ignition, and abnormal combustion events in hydrogen combustion in ICES;
- Thermodynamic analysis, energy, and exergy conversion processes;
- Simulation and modeling applications.

Guest Editors

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Deadline for manuscript submissions

31 January 2027



Processes

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Message from the Editor-in-Chief

You are invited to contribute either a research article or a comprehensive review for consideration and publication in *Processes* (ISSN 2227-9717). *Processes* is published in open access format – research articles, reviews, and other content are released on the internet immediately after acceptance. The scientific community and the general public have unlimited, free access to the content. As an open access journal, *Processes* is supported by the authors and their institutes through the payment of article processing charges (APCs) for accepted papers. We would be pleased to welcome you as one of our authors.

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