Special Issue

Advancements in Fuel Systems for Combustion Engine Development

Message from the Guest Editor

Internal combustion engines (ICEs) have played a pivotal role in driving global economic, environmental, and social development. The fuel system, a critical component of every ICE, delivers precise fuel for optimal combustion. Its efficiency and design directly impact engine performance, emissions, and reliability. Key factors like design, condition, and components significantly influence an engine's power, efficiency, emissions, and lifespan. This Special Issue on ICEs will showcase groundbreaking research and highlight the latest advancements in the field. This Special Issue invites contributions on various topics related to internal combustion engines, including but not limited to the following:

- Fuel system design and development;
- Fuel injection methods and strategies;
- CFD modeling;
- Fluid flow and combustion analysis;
- Thermal and fluid dynamics effects;
- Leakage, fuel consumption, and emission analysis;
- Engine structural design impact;
- Alternative or mixed fuel effects;
- Experimental design methods and analyses;
- Hydrogen-fueled engine design and analysis;
- Engine and fuel system technology advancements.

Guest Editor

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Deadline for manuscript submissions

30 January 2026

Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.5

mdpi.com/si/224467

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

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