

## Special Issue

# Advances in Alternative Fuel Engines and Combustion Technology

### Message from the Guest Editors

This Special Issue emphasizes the diversity of alternative fuels, highlights the fundamental theories and practical development of alternative fuel internal combustion engines, and encourages the application of advanced combustion technologies in this field. Topics of interest include, but are not limited to, the following:

- Studies on spray breakup, wall impingement, atomization, and macroscopic structures of alternative fuels;
- Physical and chemical modification of alternative fuel for promotion of combustion;
- Research on ignition processes and combustion characteristics of alternative fuels under advanced combustion modes;
- Kinetic modeling of combustion reactions for alternative fuels in internal combustion engines;
- Development of fuel supply and injection systems for alternative fuel engines;
- Combustion system for alternative fuel internal combustion engines;
- Emission characteristics and aftertreatment system development for alternative fuel engines;
- Lifecycle analysis and socio-economic impact assessment of alternative fuels;
- Application of artificial intelligence, digital twin, and other technologies in combustion management of internal combustion engines.

### Guest Editors

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### Deadline for manuscript submissions

28 February 2026



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### Message from the Editor-in-Chief

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