

## Special Issue

# Advances in Engine Combustion Performance, Flow and Energy Conversion Efficiency

### Message from the Guest Editors

An engine is a kind of energy transfer device that changes chemical energy into mechanical energy, which is used in production and everyday life. However, the chemical energy of the fuel used is limited, and the reaction of the fuel produces harmful products polluting the environment. Therefore, it is urgent to develop some advanced approaches to efficiently utilize the chemical energy of fuel. This Special Issue on “Advances in Engine Combustion Performance, Flow and Energy Conversion Efficiency” seeks high-quality works focusing on advanced approaches in thermodynamic cycles, combustions and flows in engines to improve the energy conversion efficiency. Topics include, but are not limited to, the following:

- Fuel properties suitable for efficient energy conversion;
- Novel thermodynamic cycles;
- Efficient combustion theory and technology;
- Flow organization for efficient work;
- Thermodynamic analysis of energy conversion;
- Design of an efficient engine.

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### Guest Editors

Dr. Han Xu

Dr. Zenghui Yin

Dr. Junheng Liu

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### Deadline for manuscript submissions

20 December 2024



## Processes

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