

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.

Guest Editors

Dr. Han Xu
Dr. Zenghui Yin
Dr. Junheng Liu

Deadline for manuscript submissions

closed (15 August 2025)



Processes

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Processes
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
processes@mdpi.com

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Editor-in-Chief

Prof. Dr. Giancarlo Cravotto

Department of Drug Science and Technology, University of Turin, Via P. Giuria 9, 10125 Turin, Italy

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