

Special Issue

Internal Combustion Engine Performance 2024

Message from the Guest Editor

In this context, the 2024 issue of “Internal Combustion Engine Performance” aims to gather further innovative research and offer important developments for the field of the internal combustion engine. More specifically, topics of interest for the Special Issue include (but are not limited to):

- Combustion mechanisms in spark and compression ignition engines;
- Fuel injection and spray formation;
- Pollutants formation (particulate matter, NO_x, CO, HC, noise);
- Exhaust after-treatment systems (three-way catalysts, oxidation catalysts, diesel and gasoline particulate filters, SCR, NO_x adsorbers);
- Internal measures for emission control (EGR, water injection, etc.);
- Exhaust heat Recuperation Systems (Rankine cycle, turbocompound etc.);
- Engine downsizing;
- Effects on engine structure and design due to increased performance demands;
- Special problems associated with large-scale two-stroke engines performance and emission reduction;
- Alternative fuels’ and biofuels’ effects on engine performance and emissions (ethanol, butanol, biodiesel, etc.);
- Recent advances in internal combustion engines experimentation;
- Novel combustion systems (HCCI, PCCI and RCCI).

Guest Editor

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Deadline for manuscript submissions

closed (5 March 2025)



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Message from the Editor-in-Chief

Energies is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

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