

Special Issue

Recent Advances in Internal Combustion Engines Operation and Emissions

Message from the Guest Editor

The present Special Issue of *Energies* aims to gather innovative simulations and experimental research, and highlight recent advances on various aspects of internal combustion engine operation, such as those mentioned above. 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);
- Performance and emissions during certification (driving and engine) cycles;
- Alternative fuels and biofuels effects on engine performance and emissions (ethanol, butanol, biodiesel, dimethylether, etc.);
- Recent advances in internal combustion engines experimentation;
- Novel combustion systems (HCCI, PCCI and RCCI);
- Hybrid electric engine operation;

Guest Editor

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Deadline for manuscript submissions

closed (30 June 2019)



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About the Journal

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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