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Recent Advances in Internal Combustion Engines Operation and Emissions

Guest Editor:

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Deadline for manuscript submissions:
closed (30 June 2019)

Message from the Guest Editor

Dear Colleagues,

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;

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Message from the Editor-in-Chief

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