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Advanced Engine Technologies and Fuels

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Message from the Guest Editors

Dear Colleagues,

Road transport plays a critical role in modern economy, which is and will be largely powered by internal combustion (IC) engines for decades to come. The intensive use of IC engines has caused significant energy and environmental problems. Regulations are becoming increasing stringent to reduce both pollutant and GHG emissions from IC engines. IC engines are also facing considerable challenges from battery electric vehicles. Improving fuel efficiency and emission performance has been the goal of engine researchers and manufacturers for years. Various new combustion technologies have been developed or are under development for IC engines, such as engine downsizing, low temperature combustion (e.g. HCCI, PCCI, RCCI, ICCI, PPC and GCI), dual injection/fuel engines, powertrain hybridisation and electrification, cleaner and renewable fuels, exhaust after-treatment technologies, etc.

This Special Issue aims to collect original research and review papers on advanced engines and fuels. All experimental and numerical studies that support higher thermal efficiency and lower emissions of IC engines are welcome.



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Special Issue



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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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