Special Issue

Experimental/Computational Analysis of Spray and Combustion Process in Internal Combustion Engines

Message from the Guest Editor

Internal combustion engines are achieving high-efficiency clean emissions thanks to advances in novel experimental and CFD modelling. Even though some level of electrification of vehicle system is inevitable, we believe the internal combustion engine will be the primary power source for transportation system in the future. Based on recent understandings of spray and combustion process in the engine, it is believed thermal efficiency over 50% can be accomplished. Many of fundamental studies related to high-speed optical imaging on internal/external nozzle flow, advance diagnostics using laser and x-ray and 3D computational modelling have been carried out to support engine design and development. This special issue invites contributions from both experimental and computational approaches in the topic of fuel sprays and combustion characterization for internal combustion engines. This topic is applied in the field of conventional automotive engine, gas turbine, and rig test under relevant ambient conditions. Both original research paper as well as review article are welcome.

Guest Editor

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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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