



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

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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.





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Message from the Editor-in-Chief

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