



Combustion Engine In-Cylinder Flow

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Message from the Guest Editors

The Guest Editors are inviting submissions to a Special Issue of *Energies* on the topic “Combustion Engine In-cylinder Flow”. Air flow organization and air fuel mixing optimization are extremely important for the performance improvement and emission control of internal combustion engines. There have been many emerging techniques for engine in-cylinder flow design and modeling in recent years. Moreover, new approaches have been invented to measure the in-cylinder flow of combustion engines. Hence, the main gas motions in cylinders such as turbulence, swirl, squish, and tumble have been studied comprehensively.

This Special Issue will deal with technology progress and novel approaches for in-cylinder gas motion optimization of combustion engines. Topics of interest for publication include, but are not limited to:

- Four-stroke engines;
- Spark-ignition engines;
- Compression-ignition engines;
- Cycle-to-cycle variations ;
- In-cylinder flow field analysis;
- Combustion chamber designs;
- Direct numerical simulations;
- Large-eddy simulations;
- Air-fuel mixture formation;
- Stratified charge;
- Exhaust gas recirculation;
- Valve timing;
- Direct injection.





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Message from the Editor-in-Chief

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