

Special Issue

Advances in ICE In-Cylinder Flow, Turbulence and Combustion Features for HEV Applications

Message from the Guest Editors

Despite the exceptional scientific focus and economical effort, the transition between combustion-based and full electric propulsive engines will be long and intricate, especially in the aeronautical field. Internal combustion engines (ICE) will still play a fundamental role in the coming years both as traditional engines and as part of hybrid power trains for all propulsive applications (automotive, marine, aeronautical). They are inviting submissions to this Special Issue to appear in *Energies*. Both the increasingly-strict pollutant emission standards and the ICE hybridization philosophy raise new challenges for the design and management of the last generation ICE for hybrid electric vehicles (HEV) applications. The use of innovative green fuels (e.g. biodiesel), dual-fuel engines, and mixed fuel systems further amplify previously mentioned challenges, yet represent valuable innovative routes to be explored. Topics of interest include, but are not limited to the following:

- Spark ignition and compression ignition ICE for HEV
- ICE management adaptation to hybrid control strategies
- Alternative fuels for HEV
- Dual fuel and mixed fuel ICE

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