Special Issue

Optimization and Design of Carbon-Free Internal Combustion Engine Systems

Message from the Guest Editor

The focus of this Special Issue is concentrated on the demonstration of how a dedicated ICE design, which can target the specific engine power range within a defined hybrid solution, is probably the most effective and fast root to decarbonisation. Possible developments are focused on innovative ignition and combustion concepts, bio-fuel and H2 engine optimization, as well as subsystem development. Both modelling and experimental works, as well as papers combining both of them, are appreciated. Topic of interest include, but are not limited to:

- Pre-chamber lean-burn NG and NG-H2 engines;
- Direct injection H2 engines;
- Development of new generation boosting systems;
- Biofuel and hydrogen injection systems;
- Biofuel combustion systems modelling and optimization.

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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