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). The 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

Guest Editors

Prof. Dr. Massimo Cardone

Department of Chemical, Materials and Production Engineering, University of Naples Federico II, via Claudio, 21, 80125 Naples, Italy

Dr. Bonaventura Gargiulo

Department of Chemical, Materials and Production Engineering, University of Naples Federico II, via Claudio, 21, 80125 Naples, Italy

Deadline for manuscript submissions

closed (30 May 2023)

Energies

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 7.3

mdpi.com/si/78226

Energies
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
energies@mdpi.com

mdpi.com/journal/energies

Energies

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 7.3

mdpi.com/journal/energies

About the Journal

Message from the Editor-in-Chief

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.

Editor-in-Chief

Prof. Dr. Enrico Sciubba
Department of Mechanical and Industrial Engineering, University Niccolò Cusano, 00166 Roma, Italy

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, RePEc, Inspec, CAPlus / SciFinder, and other databases.

Journal Rank:

CiteScore - Q1 (Control and Optimization)