



Optimization and Design of Carbon-Free Internal Combustion Engine Systems

Guest Editor:

Dr. Mirko Baratta

Dipartimento Energia DENERG,
Politecnico di Torino, Corso Duca
degli Abruzzi 24, 10129 Torino,
Italy

Deadline for manuscript
submissions:
closed (31 October 2022)

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.





energies



an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Enrico Sciubba

Department of Mechanical and
Aerospace Engineering,
University of Roma Sapienza, Via
Eudossiana 18, 00184 Roma, Italy

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.

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)

Contact Us

Energies Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/energies
energies@mdpi.com
[X@energies_mdpi](https://twitter.com/energies_mdpi)