



energies



an Open Access Journal by MDPI

Performance Analysis and Advanced Technologies of Internal Combustion Engines

Guest Editors:

Dr. Luca Marchitto

Institute of Science and
Technology for Sustainable
Energy and Mobility (STEMS-
CNR), Italian National Research
Council, 80125 Napoli, Italy

Prof. Dr. Vincenzo De Bellis

Department of Industrial
Engineering, University of Naples
"Federico II", Via Claudio, 21,
80125 Naples, Italy

Deadline for manuscript
submissions:

18 July 2024

Message from the Guest Editors

Dear Colleagues,

The transportation sector is currently facing the hard challenge of decarbonization, resulting in a historic change in powertrain architecture. The need for an immediate reduction in greenhouse gas emissions pushes science and industry to develop advanced technologies and analysis methods to mitigate GHG emissions and improve the performance of internal combustion engines, either alone or in hybrid powertrains. The aim of this Special Issue is to collect the most recent findings and ideas for the development of advanced technologies for internal combustion engines supporting the scientific community in order to address efforts towards decarbonization and pollutant emission reduction.

Topics of interest for this Special Issue include (but are not limited to) the following:

- Alternative combustion processes;
- Advanced ignition and combustion systems;
- Advanced fuel injection systems;
- Biofuels;
- E-fuels;
- Alternative fuels;
- Free carbon fuels;
- Hydrogen;
- Hybrid powertrain energy management;
- Fuel economy;
- Emissions regulations;
- Exhaust emissions.



mdpi.com/si/195006

Special Issue



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 (*Engineering (miscellaneous)*)

Contact Us

Energies Editorial Office
MDPI, St. Alban-Anlage 66
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)