

Special Issue

Vehicle Engines and Powertrains: Performance, Combustion and Emission

Message from the Guest Editors

This Special Issue aims to encourage both academic and industrial researchers to present their latest findings concerning the previously mentioned aspects, which can lead to a significant contribution towards the achievement of green and sustainable mobility. The authors should provide a comprehensive and scientifically sound overview of the most recent research and methodological approaches. Both experimental and methodological contributions are welcome. Topics of interest for this Special Issue include, but are not limited to, the following:

- internal combustion engines
- powertrain electrification
- powertrain and engine optimization
- powertrain and engine modeling and control
- emission formation modeling and control
- air-path and fuel-path control
- innovative combustion concepts
- advanced aftertreatment systems
- alternative fuels
- artificial intelligence systems
- model-in-the-loop (MiL), hardware-in-the-loop (HiL), rapid prototyping (RP)
- energy management optimization algorithms

Guest Editors

Dr. Roberto Finesso

Department of Energy, Politecnico di Torino, Corso Duca degli Abruzzi 24, 10129 Torino, Italy

Dr. Omar Marelli

Department of Energy, Politecnico di Torino, Corso Duca degli Abruzzi 24, 10129 Torino, Italy

Deadline for manuscript submissions

closed (31 March 2025)



Energies

an Open Access Journal
by MDPI

Impact Factor 3.2
CiteScore 7.3



mdpi.com/si/180263

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

[mdpi.com/journal/
energies](https://mdpi.com/journal/energies)





Energies

an Open Access Journal
by MDPI

Impact Factor 3.2
CiteScore 7.3



[mdpi.com/journal/
energies](https://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)