

## Special Issue

# Development of Efficient Internal Combustion Engines and Vehicle Powertrains: 2nd Edition

### Message from the Guest Editors

The goal of this Special Issue on “*Development of Efficient Internal Combustion Engines and Vehicle Powertrains: 2nd Edition*” is to highlight how optimization and control techniques are bringing us toward the clean and efficient transportation of the future. There are many emerging tools and technologies for both ICE and hybrid electric powertrains that are worth highlighting, as they contribute to increased powertrain and transportation efficiency. Moreover, the ability to connect vehicles and infrastructure, which are now becoming components of the Internet of Things (IoT), enables many opportunities for planning to avoid losses and thereby improve system efficiency. This Special Issue aims to illustrate the challenges and opportunities in vehicle powertrain development. This is achieved by showcasing the wide range of developments, from hardware and physics to software, through control and optimization to the planning of future trajectories, which are ongoing and that rely on optimization and control techniques.

### Guest Editors

Prof. Dr. Lars Eriksson

Vehicular Systems, Department of Electrical Engineering, Linköping University, SE-58183 Linköping, Sweden

Prof. Dr. Per Tunestål

Department of Energy Sciences, Faculty of Engineering, Lund University, P.O. Box 118, 221 00 Lund, Sweden

### Deadline for manuscript submissions

24 October 2025



## Energies

an Open Access Journal  
by MDPI

Impact Factor 3.2  
CiteScore 7.3



[mdpi.com/si/201714](https://mdpi.com/si/201714)

*Energies*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[energies@mdpi.com](mailto: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)