

## Special Issue

# Experimental and Numerical Methods for the Design of Internal Combustion Engines and Turbomachines

### Message from the Guest Editors

This Special Issue focuses on experimental and numerical methods of different levels of complexity, either conceived for or adapted to the design and analysis of components and systems from the concept design to the optimisation, anticipated and/or developed in parallel with prototype testing. Accordingly, examples include, but are not limited to:

- classic design calculations to establish dimensions without computationally intensive methods;
- concept-level analyses to investigate and compare ideas by means of comparable data on alternative designs; experiments and flow calculations for aero-, hydro- and gas-dynamic performance;
- noise and pollutant emissions;
- abnormal operations related to fluid dynamics and combustion systems and their components;
- other design issues related to specific applications involving the use of non-conventional/alternative fluids and fuels.

---

### Guest Editors

Dr. Massimo Masi

Department of Management and Engineering, DTG—University of Padova, 36100 Vicenza, Italy

Dr. Cinzia Tornatore

Institute of Science and Technology for Sustainable Energy and Mobility (STEMS-CNR), Italian National Research Council, Via Marconi, 4, 80125 Napoli, Italy

---

### Deadline for manuscript submissions

31 December 2025



## Energies

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.2  
CiteScore 7.3



[mdpi.com/si/109218](https://mdpi.com/si/109218)

*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)