Special Issue

The Evolution and Future Prospects of Combustion Engines for Enhancing Energy Efficiency and Minimizing Environmental Impact

Message from the Guest Editors

This Special Issue aims to delve into the forefront of research surrounding sustainable internal combustion (IC) engines. It will gather original research articles and reviews to showcase innovative solutions for reducing engine emissions while maintaining efficiency. The objective is to foster the exchange of ideas, experiences, and research findings across various combustion science and technology domains. This includes exploring the physical and chemical aspects of both traditional and emerging fuel sources; understanding combustion kinetics, emissions, and particulate matter; and investigating novel combustion technologies such as dual-fuel systems and the use of alternative fuels like hydrogen, ammonia, biofuels, and e-fuels. Additionally, this Special Issue will explore the effects of additives such as nanoparticles and emulsified fuels, as well as advancements in fuel spray and combustion modelling for IC engines. By addressing these research themes, we aim to bridge existing knowledge gaps and pave the way for the redesign of sustainable combustion engines for power generation.

Guest Editors

Dr. Vikas Sharma

Dr. Justin Jacob Thomas

Dr. Valter Bruno Silva

Deadline for manuscript submissions

10 September 2025

Energies

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 7.3

mdpi.com/si/205170

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

mdpi.com/journal/energies

Energies

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 7.3

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)