

Special Issue

Experiments and Simulations of Combustion Process

Message from the Guest Editor

The study of combustion phenomena is of great scientific interest due to their presence in a wide range of industrial and domestic processes and implies the necessity to ensure that the processes related to them are performed in the most efficient way. Modern combustion systems are designed with a high combustion efficiency, high reliability, and minimum emission of air pollutants. Combustion of hydrocarbons is perhaps industrially the most important combustion system due to its use in many apparatuses, such as car engines, gas turbine engines, heaters, incinerators, or furnaces. Under certain conditions, combustion of hydrocarbons can take place as an explosion, whose evolution is due to a fast energy release, accumulating in the system due to a slow dissipation rate. This Special Issue is being launched to address recent advances regarding the study of combustion processes of hydrocarbons by experimental and/or numerical modeling, an important and widespread field.

Guest Editor

Dr. Venera Giurcan

“Ilie Murgulescu” Institute of Physical Chemistry, Romanian Academy,
202 Spl., Independentei, 060021 Bucharest, Romania

Deadline for manuscript submissions

closed (16 January 2023)



Energies

an Open Access Journal
by MDPI

Impact Factor 3.2
CiteScore 7.3



mdpi.com/si/101038

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)