



*energies*



an Open Access Journal by MDPI

## Experiments and Simulations of Combustion Process II

Guest Editor:

**Dr. Venera Giurcan**

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

Deadline for manuscript  
submissions:

**closed (20 April 2024)**

### 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. The 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, the 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.



[mdpi.com/si/162873](https://mdpi.com/si/162873)

# Special Issue



# energies



an Open Access Journal by MDPI

## Editor-in-Chief

### **Prof. Dr. Enrico Sciubba**

Department of Mechanical and  
Aerospace Engineering,  
University of Roma Sapienza, Via  
Eudossiana 18, 00184 Roma, Italy

## 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.

## 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 (*Engineering (miscellaneous)*)

## Contact Us

---

*Energies* Editorial Office  
MDPI, St. Alban-Anlage 66  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/energies](http://mdpi.com/journal/energies)  
[energies@mdpi.com](mailto:energies@mdpi.com)  
[X@energies\\_mdpi](https://twitter.com/energies_mdpi)