



## Trends and Prospects in Advanced Energy Materials 2023

Guest Editors:

**Dr. Jelena Tamuliene**

Vilnius University, Institute of  
Theoretical Physics and  
Astronomy, Sauletekio av. 3, LT-  
10222 Vilnius, Lithuania

**Dr. Jonas Sarlauskas**

Life Science Center, Institute of  
Biochemistry, Vilnius University,  
Sauletekio av. 7, LT-10257 Vilnius,  
Lithuania

Deadline for manuscript  
submissions:

**30 November 2024**

### Message from the Guest Editors

Dear Colleagues,

The aim of this Special Issue is to summarize the success of the fundamental science and applied research on materials used for harvesting, conversion, storage, transmission, and utilization of energy. The issue will also include achievements in decreasing materials' sensitivity, toxicity, instability, and proneness to decomposition or degradation over a short time. Further additions to this issue will include modern and advanced signal flare compositions, an understanding of the ignition mechanisms, and continuing development of advanced ignition methods. Moreover, techniques for the characterization of energy materials and their output as well as principles and effects of explosions will be discussed in this Special Issue. Topics of interest for publication include but are not limited to:

- ***Novel theoretical approaches to evaluating properties of high-energy materials;***
- ***Synthesis of advanced energy materials;***
- ***Properties of advanced energy materials and ways for their improvement;***
- ***Maintenance of high-energy materials;***
- ***Novel methods for high-energy materials recognition.***





# 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 (Control and Optimization)

## Contact Us

---

*Energies* Editorial Office  
MDPI, Grosspeteranlage 5  
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)