

## Special Issue

# Techno-Economic and Environmental Analysis of Low-Carbon Technologies

### Message from the Guest Editors

We invite would like to invite you to submit your original research or overview papers to this Special Issue on the “Techno-Economic and Environmental Analyses of Low-Carbon Technologies”, in *Energies*. Enabling low-carbon technologies is critical to achieving the ambitions of the Paris Agreement and the early emission-reduction targets adopted by many countries for 2030. Over the past decades, many strong research, development, and demonstration efforts have been taking place, and accelerating such technologies toward commercialization, as well as the development of novel concepts. Despite these significant progresses, further technological developments, scale-up, and an acceleration of large-scale implementations are required to meet the planned ambitions. Beyond technological advancements, a better understanding of the costs and environmental performances of low-carbon technologies is also required to better inform decision-makers on the potential of these technologies and guide deployment as well as research activities to improve the performances of promising options.

---

### Guest Editors

Mr. Simon Roussanaly

SINTEF Energy Research, Department of Gas Technology, 7034 Trondheim, Norway

Prof. Dr. Haibo Zhai

Department of Civil & Architectural Engineering, College of Engineering and Applied Science, University of Wyoming, Laramie, WY 82071, USA

---

### Deadline for manuscript submissions

closed (31 March 2023)



## Energies

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.2  
CiteScore 7.3



[mdpi.com/si/73859](https://mdpi.com/si/73859)

*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)