

## Special Issue

# Research Trends and Challenges in Bioenergy with Carbon Capture and Storage

### Message from the Guest Editor

Global energy demand is rapidly growing to meet the needs of the growing human population and socioeconomic development. Because fossil fuels still play a dominant role in global energy systems, the emission of greenhouse gases associated with fossil fuel utilization has repercussions in relation to global warming and climate change. Bioenergy with carbon capture and storage (BECCS) has recently received increasing interest as a promising technology that can generate negative emissions while generating renewable energy. However, BECCS technologies are currently in development and have scarcely been commercially demonstrated. The constraints characterizing technical barriers necessitate the development of innovative methods and approaches to formulating a successful commercial implementation of BECCS. This Special Issue aims to present and disseminate research works that increase our knowledge on BECCS technologies.

### Guest Editor

Dr. Rui Huang

Department of Electrical Engineering, Guizhou University, Guiyang 550025, China

### Deadline for manuscript submissions

closed (14 April 2023)



## Energies

an Open Access Journal  
by MDPI

Impact Factor 3.2  
CiteScore 7.3



[mdpi.com/si/117280](https://mdpi.com/si/117280)

*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)