Special Issue

CO_2 Capture, Utilization and Storage

Message from the Guest Editor

Carbon dioxide (CO2) emissions and increasing CO2 concentration in the atmosphere are global hot topics as they are among the main contributors to climate change and environmental problems. The most sustainable strategies to limit these CO2 emissions are carbon capture, utilization and storage (CCUS). CCUS is gaining increased interest as a technology to effectively reduce greenhouse gas emissions from the power and industrial sectors. There are many research works and great progress on this aspect. This Special Issue, entitled “CO2 Capture, Utilization and Storage”, aims to present the most recent technologies, materials and applications related to carbon capture, utilization and storage.

- CO2 capture technology
- CO2 utilization technology
- CO2 storage technology
- Combined CO2 capture and conversion technology
- CCUS chain

Guest Editor

Prof. Dr. Shijian Lu

Carbon Neutrality Institute, China University of Mining and Technology, Xuzhou 221008, China

Deadline for manuscript submissions

30 January 2026

Energies

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 7.3

mdpi.com/si/212809

Energies
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
energies@mdpi.com

mdpi.com/journal/energies

Energies

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 7.3

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)

MDPI