

Special Issue

Carbon Capture, Transportation, Utilization and Storage (CCUS) Process Optimization (CCUSPO)

Message from the Guest Editors

CCUS is an important way to reduce carbon emissions, including but not limited to carbon capture, carbon dioxide transportation, carbon dioxide utilization, and carbon dioxide sequestration. Although CCUS has made significant progress, CCUSPO is still required for further research. This Special Issue will explore modelling and optimization methods for various CCUS processes to improve process energy efficiency, reduce process consumption, and achieve the goal of reducing carbon reduction costs.

- CCUS process modelling
- CCUS optimization
- CCUS parameter sensitivity analysis
- CCUS energy consumption and carbon emission assessment
- CCUS economic evaluation
- CCUS process dynamic modelling
- CCUS process dynamic optimization

Guest Editors

Prof. Dr. Dongya Zhao

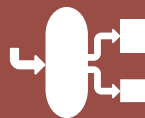
College of New Energy, China University of Petroleum (East China),
Qingdao 266580, China

Prof. Dr. Shijian Lu

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

Deadline for manuscript submissions

31 August 2025



Processes

an Open Access Journal
by MDPI

Impact Factor 2.8
CiteScore 5.5

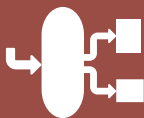


mdpi.com/si/227666

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

[mdpi.com/journal/
processes](https://mdpi.com/journal/processes)





Processes

an Open Access Journal
by MDPI

Impact Factor 2.8
CiteScore 5.5



[mdpi.com/journal/
processes](https://mdpi.com/journal/processes)



About the Journal

Message from the Editor-in-Chief

You are invited to contribute either a research article or a comprehensive review for consideration and publication in *Processes* (ISSN 2227-9717). *Processes* is published in open access format – research articles, reviews, and other content are released on the internet immediately after acceptance. The scientific community and the general public have unlimited, free access to the content. As an open access journal, *Processes* is supported by the authors and their institutes through the payment of article processing charges (APCs) for accepted papers. We would be pleased to welcome you as one of our authors.

Editor-in-Chief

Prof. Dr. Giancarlo Cravotto

Department of Drug Science and Technology, University of Turin, Via P. Giuria 9, 10125 Turin, 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, Inspec, AGRIS, and other databases.

Journal Rank:

CiteScore - Q2 (Chemical Engineering (miscellaneous))