Special Issue

High-Efficiency and High-Selectivity Processes of CO_2 Conversion

Message from the Guest Editors

This Special Issue aims to highlight breakthrough techniques, materials, and systems that considerably improve the efficiency and selectivity of CO2 conversion by bringing together a varied spectrum of studies. Topics include, but are not limited to, the following:

- Catalytic processes for CO2 conversion;
- Electrochemical reduction of CO2;
- Photocatalytic and photoelectrochemical CO2 conversion;
- Biological and bio-inspired CO2 conversion methods;
- Novel materials and catalysts for enhanced CO2 selectivity;
- Reactor design and optimization for CO2 conversion;
- Integration of CO2 conversion processes with renewable energy sources;
- Techno-economic analysis of CO2 conversion technologies;
- Lifecycle assessment and environmental impact of CO2 conversion processes;
- Case studies and pilot projects demonstrating high-efficiency CO2 conversion.

Guest Editors

Dr. Mohammad Danish Khan

Dr. Preetam Kumar Sharma

Dr. Shamas Tabraiz

Deadline for manuscript submissions

31 January 2025

Processes

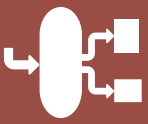
an Open Access Journal by MDPI

Impact Factor 2.8
CiteScore 5.1

mdpi.com/si/209826

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

mdpi.com/journal/processes



Processes

an Open Access Journal by MDPI

Impact Factor 2.8
CiteScore 5.1

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:

JCR - Q2 (Engineering, Chemical) / CiteScore - Q2 (Chemical Engineering (miscellaneous))

MDPI