



Sustainable Solutions for Carbon Dioxide Emissions Mitigation through Utilization Schemes

Guest Editors:

Prof. Dr. Domagoj Vulin

Department of Petroleum and Gas Engineering and Energy, Faculty of Mining, Geology, and Petroleum Engineering, University of Zagreb, 10 000 Zagreb, Croatia

Dr. Jukić Lucija

Department of Petroleum and Gas Engineering and Energy, Faculty of Mining, Geology, and Petroleum Engineering, University of Zagreb, 10 000 Zagreb, Croatia

Deadline for manuscript submissions:

closed (1 September 2024)

Message from the Guest Editors

The SI aims to gather various potentially viable and feasible CO₂ mitigation, i.e., carbon capture and utilization schemes that contribute to the environmental and financial sustainability of industries currently labelled as a “pollutant”.

In this Special Issue, original research articles and reviews are welcome. Research areas may include (but are not limited to) the following:

Carbon capture options in various industries and related challenges, chemical and physical CCU, co-optimizing, and the LCA of CO₂ EOR/EGR/ECBM, enhanced geothermal systems with possible combinations of energy storage and permanent CO₂ storage, the technological and economic potential of other CO₂ utilization options (CO₂ methanation, CO₂ to methanol, biofuels from algae, BECCS, carbonation – primarily in waste-to-energy plants, food freezing, beverages carbonation, and polymer production), and issues such as legal framework related to CO₂, national CO₂ markets, and public communication and acceptance.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Marc A. Rosen

Faculty of Engineering and
Applied Science, University of
Ontario Institute of Technology,
Oshawa, ON L1G 0C5, Canada

Message from the Editor-in-Chief

I encourage you to contribute a research or comprehensive review article for consideration for publication in *Sustainability*, an international Open Access journal which provides an advanced forum for research findings in areas related to sustainability and sustainable development. *Sustainability* publishes original research articles, review articles and communications. I am confident you will find the journal contributes to enhancing understanding of sustainability and fostering initiatives and applications of sustainability-based measures and activities.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE and SSCI (Web of Science), GEOBASE, GeoRef, Inspec, AGRIS, RePEc, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q2 (*Environmental Studies*) / CiteScore - Q1 (Geography, Planning and Development)

Contact Us

Sustainability Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/sustainability
sustainability@mdpi.com
[X@Sus_MDPI](https://twitter.com/Sus_MDPI)