

Special Issue

Sustainable Solutions for Carbon Dioxide Emissions Mitigation through Utilization Schemes

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.

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Deadline for manuscript submissions

closed (1 September 2024)



Sustainability

an Open Access Journal
by MDPI

Impact Factor 3.3
CiteScore 7.7



mdpi.com/si/124225

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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. The journal publishes original research articles, reviews, conference proceedings (peer reviewed full 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.

Editor-in-Chief

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