



Sustainable Solutions for Carbon Dioxide Emissions Mitigation through Utilization Schemes

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Deadline for manuscript submissions:

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.





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Message from the Editor-in-Chief

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