Special Issue

Existing & Potential CO_2 Re-Use: Exploring the Evolving Field

Message from the Guest Editor

The rapid consumption and slow formation of fossil fuels, are imbalanced. Counteracting the imbalance of carbon cycle should involve CO2 utilization and conversion. Scientists are proposing CO2 utilization for closing the carbon cycle, but no evidence shows the option is the most convenient path. More efforts are required to assess all the ways to use CO2 as a sustainable resource. The emission of CO2 can be reduced by promising capture and conversion technologies. CO2 can be converted into fuels, polymers, etc. Method for CO2 reduction can be used in photosynthesis, electrochemical, hydrogenation, ect. The SI aims to results of cutting-edge research of carbon capture, utilization and storage, including CO2 conversion to chemicals and fuels. The detailed results available from the journal are thought to be useful for researchers that will assess the net impacts of a CO2 capture and utilization process, which can be obtained with LCA of CCU product and process. Papers include rigorous and transparent LCA are preferred.

Guest Editor

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Deadline for manuscript submissions

closed (31 January 2021)

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Editor-in-Chief

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JCR - Q2 (Environmental Sciences) / CiteScore - Q1 (Nature and Landscape Conservation)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 23.3 days after submission; acceptance to publication is undertaken in 4.5 days (median values for papers published in this journal in the second half of 2025).

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