



Existing & Potential CO₂ Re-Use: Exploring the Evolving Field

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

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.

