

## Special Issue

# Existing & Potential CO<sub>2</sub> 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 CO<sub>2</sub> utilization and conversion. Scientists are proposing CO<sub>2</sub> 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 CO<sub>2</sub> as a sustainable resource. The emission of CO<sub>2</sub> can be reduced by promising capture and conversion technologies. CO<sub>2</sub> can be converted into fuels, polymers, etc. Method for CO<sub>2</sub> reduction can be used in photosynthesis, electrochemical, hydrogenation, etc. The SI aims to results of cutting-edge research of carbon capture, utilization and storage, including CO<sub>2</sub> 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 CO<sub>2</sub> 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

Dr. Davide Bonalumi  
Politecnico di Milano

### Deadline for manuscript submissions

closed (31 January 2021)



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### Message from the Editor-in-Chief

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### Editor-in-Chief

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