

Session Title: Carbon Recycling

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Abstract title: Hybrid technologies for integrated carbon capture and conversion to chemicals, materials and fuels for carbon-constrained world

Our modern society has been built based on the availability of fossil resources. Unfortunately, the way we have been utilizing our resources has resulted in significant environmental impacts including climate change. Thus, we need to develop technologies that can create a cyclic CO₂ economy, whereby we mine CO₂ from the air and waste streams, convert them to chemicals, materials and fuels while storing the rest to create negative emissions. This talk will introduce emerging CCU technologies with a focus on hybrid approaches.