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Simultaneous Wastewater Treatment and Carbon Capture for Energy Production

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Abstract

Carbon capture and utilization technologies utilize carbon dioxide as a feedstock and convert it into value-added products such as fuels, energy, and hydrogen generating technologies, chemicals, or building materials (EC in Novel carbon capture and utilisation technologies. European Commission Group of Chief Scientific Advisors, [2018](#)). Such sustainable technologies reduce carbon footprint, mitigate climate change, and remediate the environment. The overall aim of such carbon capture and utilization technologies is to reduce the CO₂ emissions to achieve the global average temperature increase below 2 °C, as suggested in the Paris Agreement on Climate Change.