Special Issue

Recent Advances in CO_2 Capture, CO_2 Utilization, and Green Chemistry for Sustainability

Message from the Guest Editors

When facing energy and environmental challenges, no effort should be spared to alter the mode of production in a sustainable direction, and it is urgent to develop new technologies with low energy consumption to control CO2 concentration in the atmosphere and address pollutant emissions. Recently, achievements in CO2 capture, CO2 utilization, and green chemistry for sustainability have been realized with the help of low-carbon energy technologies and pollution control technologies. New technologies for CO2 capture and utilization, such as integration of carbon capture and utilization (ICCU), chemical looping combustion (CLC), oxy-fuel combustion (O2/CO2) have achieved CO2 capture and utilization efficiently, and efficient production with fewer pollutions. However, a lot of work is still needed to achieve the goal of carbon neutrality. This Special Issue on “Recent Advances in CO2 Capture, CO2 Utilization, and Green Chemistry for Sustainability” seeks high-quality reviews and research works that involve low-carbon conversion and green chemistry for sustainability.

Guest Editors

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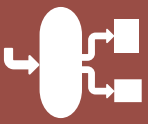

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