



Recent Advances in CO₂ Capture, CO₂ Utilization, and Green Chemistry for Sustainability

Guest Editors:

Dr. Yongqing Xu

Dr. Bowen Lu

Dr. Yuchuan Feng

Dr. Xing Yuan

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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.





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Editor-in-Chief

Prof. Dr. Giancarlo Cravotto

Department of Drug Science and
Technology, University of Turin,
Via P. Giuria 9, 10125 Turin, Italy

Message from the Editor-in-Chief

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Processes Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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