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Catalytic Processes for CO_2 Utilization

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Deadline for manuscript submissions:
closed (10 December 2021)

Message from the Guest Editors

The Special Issue "Catalytic Processes for CO_2 Utilization" will focus on, but is not limited to, the following topics:

- CO_2 as feedstock for the chemical and petrochemical industries;
- CO_2 as feedstock for synthetic fuels and Power-to-X;
- progress in the direct catalytic hydrogenation of CO_2;
- bio-catalytic, electrochemical, and hybrid conversion processes for CO_2;
- reforming processes for the utilization of CO_2;
- intensification of catalytic processes for CO_2 utilization;
- the role of CO_2 in chemical storage of renewable energy;
- CO_2 sources: potential, future developments, and conditions for utilization;
- carbon capture as part of CCU process chains;
- integration of CCU in existing industrial production;
- the future role of CCU for the decarbonization of industry; and
- the Life Cycle Assessment (LCA) and Greenhouse Gas (GHG) mitigation potential of CCU process chains.

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Message from the Editor-in-Chief

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