



an Open Access Journal by MDPI

Recent Advances in Catalytic CO₂ Conversion for Value-Added Chemical Production

Guest Editors:

Dr. Ung Lee

Korea Institute of Science and Technology, Korea University, Seoul, Korea

Prof. Dr. Hyung-Suk Oh

Korea Institute of Science and Technology (KIST), Seoul, Korea

Deadline for manuscript submissions: closed (10 March 2022)

Message from the Guest Editors

Dear Colleagues,

Catalytic CO₂ conversion is a promising option for mitigating greenhouse gases while maintaining the economic feasibility of chemical production processes. Catalytic CO₂ conversion may include 1) thermochemical catalytic CO₂ conversion, 2) electrochemical CO₂ reduction, and 3) biological CO₂ capture and conversion. Amongst them, several research topics such as CO₂ hydrogenation and electrochemical CO₂ reduction processes are highlighted for the practical application of value-added chemical production as large-scale demonstration projects have successfully demonstrated the economic feasibility of CO2 utilization. This Special Issue on catalytic CO2 conversion will present an overview of currently applied techniques for CO₂ conversion, focusing on their advantages, and disadvantages and on the main challenges facing their large-scale application.

Dr. Ung Lee Prof. Dr. Hyung-Suk Oh *Guest Editors*



