



Theoretical and Experimental Advance in Catalytic CO₂ Hydrogenation to Produce Methanol

Guest Editors:

Prof. Dr. Jingyun Ye

Department of Chemistry and Biomolecular Science, Clarkson University, Potsdam, NY, USA

Prof. Dr. Gyu Leem

College of Environmental Science and Forestry, State University of New York, Syracuse, NY, USA

Prof. Dr. Yifeng Zhu

Department of Chemistry, Fudan University, Shanghai 200438, China

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Message from the Guest Editors

Catalytic hydrogenation of CO₂ to value added chemical and fuels has attracted increasing attentions because of its great potential for closing the anthropological carbon-loop and producing the sustainable energy and materials. Great efforts have been made to develop efficient catalysts for CO₂ hydrogenation to methanol. Methanol is a particularly valuable product from CO₂ hydrogenation, because it is an excellent fuel for internal combustion engines or fuel cells, can be easily transported and stored using existing infrastructure, and is also an important feedstock for producing other valuable chemicals (e.g., dimethyl ether, ethylene, propylene) that current obtained from fossil fuels.

This Special Issue will present the most recent and significant theoretical and experimental studies and discoveries on heterogeneous and homogeneous catalysts including thermo-, photo-, electro-catalysis for CO₂ hydrogenation to methanol. Original papers on the above topics and short reviews are welcome for submission.

