

Special Issue

Theoretical and Experimental Advance in Catalytic CO₂ Hydrogenation to Produce Methanol

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 thermal-, photo-, electro-catalysis for CO₂ hydrogenation to methanol. Original papers on the above topics and short reviews are welcome for submission.

Guest Editors

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Deadline for manuscript submissions

closed (31 July 2022)



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