

Special Issue

Conversion of CO₂ into CO Using Heterogeneous Catalysis

Message from the Guest Editor

There are various strategies for converting carbon dioxide into carbon monoxide: Reverse water gas shift or dry reforming can be possible routes of production of carbon monoxide out of carbon dioxide, and electrochemical methods can also be taken into account. In any case, heterogeneous catalysts are required for converting carbon dioxide into carbon monoxide and many investigations have been recently devoted to developing catalysts for these reactions, with high catalytic activity, selectivity, and stability. Though, much more works should be done for developing superior catalysts, on the other hand, unveiling mechanism of deactivation and regeneration of catalysts on atomic scale should also be coupled with development of highly active and stable catalysts for conversion of carbon dioxide into carbon monoxide. This Special Issue aims to cover recent progress and advances in fabricating novel catalysts with high activity and stability for catalytic conversion of carbon dioxide into carbon monoxide. Moreover, deactivation behavior, as well as regeneration of catalytic activity via various processes and their mechanisms, should be important subjects for this Special Issue.<

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