



## Catalyst for Hydrogenation of CO<sub>2</sub> to Fuels

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**closed (20 June 2021)**

### Message from the Guest Editor

Dear Colleagues,

The global demand for energy is steadily increasing, mainly because of the increasing population. Current energy production is heavily dependent on fossil fuels and emits greenhouse gases. Therefore, CO<sub>2</sub> management is one of the most challenging issues of the current generation.

Various schemes of carbon management have been put forward as ways to tackle this issue. Among them, chemical conversion of CO<sub>2</sub>, which is enabled by the use of catalysts, is one of the promising ways to transform CO<sub>2</sub> to fuels and chemicals. Thus, generated fuels and chemicals can be directly used as fuels or feedstocks in existing industrial processes without a need to reinvent the new infrastructures.

This Special Issue, therefore, seeks to contribute to a fundamental understanding of the catalytic hydrogenation of CO<sub>2</sub> to fuels and feedstock chemicals. Topics of interest for publication include but are not limited to the following:

Experimental (ex-situ and in-situ) and theoretical studies of

-Catalytic CO<sub>2</sub> conversion;

-Reactions of CO<sub>2</sub> with molecules;

-Catalyst design for CO<sub>2</sub> conversion and reaction of CO<sub>2</sub> with other molecules.





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## Message from the Editor-in-Chief

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