



an Open Access Journal by MDPI

## Advanced Catalysts for the Production of Methanol from CO<sub>2</sub>

Message from the Guest Editor

Guest Editor:

## Dr. Venkata D. B. C. Dasireddy Dear Col

 National Institute of Chemistry, Ljubljana, Slovenia
Senior Scientist, Light Stock Processing Divison, Indian Institute of Petroleum, Dehradun 248005, India

Deadline for manuscript submissions: closed (10 August 2022) Dear Colleagues,

Global warming caused by increasing atmospheric carbon dioxide concentration and depletion of fossil fuels is becoming the focus of worldwide attention. Recently, the catalytic conversion of CO<sub>2</sub> has attracted considerable attention because it can also provide useful chemicals such as methanol which can be transformed into other high-volume-based chemicals.

The main types of methanol are grey methanol derived from natural gas, blue methanol derived from natural gas combined with carbon capture and storage, and emethanol derived from renewable electricity and captured CO<sub>2</sub>. The latter two fuels can be considered "green methanol".

Submissions to this Special Issue may take the form of original research papers and short reviews which reflect state-of-the-art research on the conversion of CO<sub>2</sub> to methanol through thermocatalytic, photocatalytic, and electrocatalytic routes on the following topics:CO<sub>2</sub> hydrogenation catalyst research and development, catalyst deactivation, CO<sub>2</sub> hydrogenation reaction mechanisms, kinetics and modeling, and structure–functional relationships in CO<sub>2</sub> hydrogenation catalysts.

**Special**sue



mdpi.com/si/101743