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## Advances in Preparation, Characterization of Catalysts for CO<sub>2</sub> Valorization

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### Message from the Guest Editor

Dear Colleagues,

The continuous rise of atmospheric CO<sub>2</sub> concentration is a major contributor to climate change. Therefore, adequate measures of capture and valorization are very important to control CO<sub>2</sub> emissions, namely, by: i) reducing the amount of CO<sub>2</sub> emitted to the atmosphere, ii) increasing the storage of CO<sub>2</sub>, and iii) fostering the use of CO<sub>2</sub> as a feedstock to produce added-value products such as chemicals and fuels. The most promising path is the last one.

Considering that CO<sub>2</sub> can be involved in many processes, it is possible to highlight the production of methanol, syngas, and hydrocarbons. An important key of these processes is to develop a very active and select catalyst.

This Special Issue aims to report new advances and insights into strategies for synthesizing and characterizing improved and new catalysts for CO<sub>2</sub> valorization.

### Keywords

- nanostructures
- CO<sub>2</sub> utilization
- methanol production
- hydrocarbons production
- syngas production
- perovskites and oxides
- supported catalysts



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# Special Issue



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## Message from the Editor-in-Chief

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