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New Trends in Catalytic Conversion of Carbon Dioxide

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Deadline for manuscript submissions:
closed (30 June 2021)

Message from the Guest Editors

The aim of this Special Issue is to focus on the state-of-the-art, perspectives and targets to be developed in the CO2 conversion to chemical and energy value products.

Articles, reviews or short-reviews regarding carbon dioxide conversion to syngas, methanol, formic acid, dimethyl ether, hydrocarbons by Fischer-Tropsch reaction and methane, or regarding production of short-chain olefins (ethylene, propylene) by CO2 consumption, are of great interest to this Special Issue.

Moreover, the relevance of H2 production using renewable energies and its consumption in the CO2 conversion reactions is also an important focus of the Special Issue. In this view, works that outline on the current status of Power-To-Gas technology as smart recycling of carbon dioxide are welcome for publication in this Special Issue.

The submitted manuscripts can cover different aspects, including the state of the art and design of catalysts and related considerations about the reaction mechanisms: all critically evaluated to give the insight into each reaction.