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Converting CO₂ into Fuel and Chemicals

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Message from the Guest Editors

The utilization of CO₂ as chemical feedstock has been a focus in generating fuels and chemicals that society urgently demands. Much efforts are aimed at the research of the CO₂ conversion via hydrogenation to various value-added hydrocarbons, such as CH₄, lower olefins, gasoline, or long-chain hydrocarbons catalyzed by different catalysts with various mechanisms. Although many efforts have been made in relation to catalytic CO₂ conversion, effectively activating the thermodynamically-stable CO₂ molecule continues to be an obstacle, as it requires high temperatures and is an energy-intensive process. This will be realized by the development of rational synthesis method, which will allow the smart design of heterogeneous catalysts with high efficiency and long-term stability.

This Special Issue will focus on innovative and novel research in "Converting CO2 into Fuel and Chemicals". Full papers, communications, perspectives, and mini-reviews are welcomed for inclusion in this Special Issue of Molecules













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Message from the Editor-in-Chief

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