

Special Issue

Converting CO₂ into Fuel and Chemicals

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

As the premier open access journal dedicated to molecular chemistry, now in its 30th year of publication, the papers published in *Molecules* span from classical synthetic methodology to natural product isolation and characterization, as well as physicochemical studies and the applications of these molecules as pharmaceuticals, catalysts, and novel materials. Pushing the boundaries of the discipline, we invite papers on all major fields of molecular chemistry and multidisciplinary topics bridging chemistry with biology, physics, and materials science, as well as timely reviews and topical issues on cutting-edge fields in all of these areas.

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