

Special Issue

New Insight in Catalysis and Electrocatalysis for CO₂ Conversion

Message from the Guest Editors

The continuous release of CO₂ by human activities poses a significant threat to human survival, caused by the disruption of the global climate and the upset of the carbon balance among the four biosphere reservoirs: earth, air, and water. Converting CO₂ into useful products has been considered one of the most appealing approaches to rebalancing the carbon cycle. This not only mitigates its environmental impact, but also provides a sustainable means of producing fuels and chemicals. Catalysis and electrocatalysis play pivotal roles in the field of carbon dioxide (CO₂) conversion. In this innovative approach, catalysts serve as facilitators, accelerating the conversion of carbon dioxide (CO₂) into valuable and environmentally beneficial products, such as fuels and chemicals. In this Special Issue, original research articles and reviews are welcome. Research areas may include (but are not limited to) the regulation of catalytic reactions and the design/innovation of catalysts for the production of value-added products using CO₂.

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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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