Special Issue

High-Efficiency and High-Selectivity Processes of CO_2 Conversion

Message from the Guest Editors

This Special Issue aims to highlight breakthrough techniques, materials, and systems that considerably improve the efficiency and selectivity of CO2 conversion by bringing together a varied spectrum of studies. Topics include, but are not limited to, the following:

- Catalytic processes for CO2 conversion;
- Electrochemical reduction of CO2;
- Photocatalytic and photoelectrochemical CO2 conversion;
- Biological and bio-inspired CO2 conversion methods;
- Novel materials and catalysts for enhanced CO2 selectivity;
- Reactor design and optimization for CO2 conversion;
- Integration of CO2 conversion processes with renewable energy sources;
- Techno-economic analysis of CO2 conversion technologies;
- Lifecycle assessment and environmental impact of CO2 conversion processes;
- Case studies and pilot projects demonstrating high-efficiency CO2 conversion.

Guest Editors

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Editor-in-Chief

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