Special Issue

Advanced Electrocatalysts for Carbon Dioxide to Fuel Conversion

Message from the Guest Editors

Advanced electrocatalysts for carbon dioxide (CO_2) to fuel conversion play a crucial role in climate change mitigation by utilizing renewable energy for sustainable fuel production. These electrocatalysts facilitate the electrochemical reduction of CO_2 to valuable fuels such as ethanol, methane, ethylene, or formic acid. Developing efficient electrocatalysts is critical for improving the overall conversion efficiency of this process. Researchers focus on optimizing the conversion of CO_2 into desired fuel products by designing catalysts with high selectivity, stability, and activity. This field of study combines expertise in materials science, chemistry, and engineering to address challenges and improve the performance of electrocatalysts, contributing to the advancement of green and clean energy technologies.

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Editor-in-Chief

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