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Photocatalytic Reduction of CO2

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Message from the Guest Editor

Carbon dioxide and its emissions represent a hot topic in global warming discussions. However, it also represents the most abundant source of carbon which is not utilized. The idea of conversion of carbon dioxide into other useful chemicals such as methanol or methane and their utilization as fuels could help with the world's emerging energy shortage. Even though photocatalytic reduction of CO_2 has been studied for many years, its exact reaction mechanism is not known, and even the reaction itself represents a challenge. This Special Issue collects original research papers, reviews, and commentaries focused on improving the knowledge of photocatalytic reduction of carbon dioxide, including new reactor design, novel photocatalysts, and especially understanding of reaction mechanisms.

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Special Issue