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Heterogeneous Catalysis for Clean Energy Production and Carbon Dioxide Utilization

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Message from the Guest Editors

As a promising CO_2 mitigation strategy for carbon capture and storage, CO_2 utilization and production for clean energy are attracting increasing interest globally. This Special Issue will focus on experimental and theoretical investigations of novel heterogeneous catalysts for clean energy production and CO_2 utilization. Clean energy includes, but is not limited to, energy derived from renewable and carbon-free sources. The CO_2 utilization approaches cover electrochemical, catalytic, photocatalytic and photosynthetic, and biological process.

Both fundamental and applied research topics on heterogeneous catalysts for clean energy production and CO_2 utilization, including catalyst efficiency and stability, are of interest. Related studies on new methodologies for in situ and operando catalyst characterization are also of interest. The goal is to compile a set of manuscripts that inform the state-of-the-art in heterogeneous catalysis for clean energy and CO_2 utilization.