



Innovative Catalysts for Photo/Electrochemical Conversion of Small Molecules to Fuels and Value-Added Chemicals

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Message from the Guest Editors

Dear Colleagues,

The emerging photo/electro-convert renewable small molecules (H_2O , CO_2 , N_2 , O_2 , H_2 , NH_3 , CH_4 , etc.) of transportable fuels and value-added chemicals, as a sustainable and environmentally benign technology, are of great potential to replace the traditional fossil fuel-based industrial synthesis. The development of appropriate reaction systems and innovative catalysts is a key step in the photo/electrocatalytic process for efficient activation and formation of chemical bonds. Although recently these reactions have been well-studied, the catalyst design, system optimization and reaction mechanisms for the objective of high selectivity and yield are yet to reach their optimum in consideration of the requirement of applications.

Therefore, this Special Issue of *Catalysts* will highlight recent developments in the photo/electrochemical conversion of small molecules to fuels and value-added chemicals. The Guest Editors welcome submissions of original research and review articles by researchers from all disciplines investigating topics relevant to the photo/electrochemical synthesis of fuels and value-added chemicals.

