

Special Issue

Catalysis for Environmentally Benign Production of Alternative Fuels

Message from the Guest Editor

Environmentally benign productions of chemical intermediates and clean fuels from alternative feedstock have been getting attractive recently due to a fast depletion of oil reservoirs. Among them, syngas conversions into a broad range of fuel-grade hydrocarbons such as gasoline, diesel, jet fuel, oxygenates including dimethyl ether and alcohols, and chemical intermediates such as light olefins and aromatics are more interested as core technologies of C1 chemistry. Those productions from various hydrocarbon feeds can also replace the existing petroleum-derived products. The present Special Issue focuses on the fundamental investigations to develop novel heterogeneous catalysts for the productions of chemical intermediates as well as clean fuels based on C1 chemistry from alternative feedstock such as natural gas and CO_x. Both fundamental and applied research in terms of novel catalytic systems and gas-phases reactions by environmentally benign processes are sincerely invited, especially in the fields of C1 chemistry-based heterogeneous catalysis.

Guest Editor

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