Special Issue

C1 Chemistry—C1-Platform Chemicals as Cornerstone for a Sustainable Energy

Message from the Guest Editors

Dear Colleages, Despite the enormous benefits to modern civilization, the adopted production scheme, and consumption patterns are mostly based on non-recycled sources of energy. Carbon dioxide and all C1-platform chemicals appear to be cornerstones to generate a new and sustainable energy concept for the 21st century: Methane, methanol, carbon monoxide, and formic acid can all be used directly either as fuels or as storage media. This Special Issue is devoted to present the central catalytic role into the aforementioned topics. For example: - CO2 capture - use of CO2 as reactant or process to its mitigation; - C1-platform like formic acid, CO, methanol and methane; - biomass or biomass-derivate feed; - gas emissions mitigation (NOx and SOx); - hydro-treatment process for fuel, etc.

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Deadline for manuscript submissions

closed (15 June 2017)

Catalysts

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Impact Factor 4.0
CiteScore 7.6

mdpi.com/si/7950

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