

Special Issue

Catalysts for Production and Conversion of Syngas

Message from the Guest Editors

Synthesis gas or, briefly, syngas, is a mixture of CO, CO₂, and H₂. Syngas can be produced from many sources, including natural gas, coal, biomass, or virtually any hydrocarbon feedstock, by reaction with steam or oxygen. Syngas is a crucial platform for the production of a variety of products including synthetic hydrocarbons and oxygenates fuels. This Special Issue compiles and reviews the latest advances in catalytic conversions of syngas into value-added products with an emphasis on the selective production of low molecular weight alcohols (C_nOH, n = 1-5), dimethyl ether (DME), light olefins (C₂-C₄, which are key building block chemicals), and hydrocarbons (C₅+ as liquid fuels). This Special Issue provides insight into the challenges surrounding syngas conversion and the initiatives in catalysis research undertaken to overcome those. Submissions are welcome in the form of original research papers or short reviews that reflect the state-of-the-art of this research area.

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Deadline for manuscript submissions

closed (30 November 2020)



Catalysts

an Open Access Journal
by MDPI

Impact Factor 4.0
CiteScore 7.6



mdpi.com/si/24369

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