catalysts

an Open Access Journal by MDPI

IMPACT FACTOR 3.8

CITESCORE 6.8

The New Catalytic Processes in Alternative Fuel Production

Guest Editors:

Prof. Dr. Jacek Rynkowski
Institute of General and Ecological Chemistry, Lodz University of Technology, Zeromskiego 116, 90-924 Lodz, Poland

Dr. Karolina Chalupka
Institute of General and Inorganic Chemistry, Lodz University of Technology, Zeromskiego 116, 90-924 Lodz, Poland

Deadline for manuscript submissions:
closed (31 January 2021)

Message from the Guest Editors

Dear Colleagues,

The nonrenewable sources of fossil fuels are running out, and their availability is limited. This can be achieved by either using less energy or by replacing fossil fuel with renewable fuels. For this reason, alternative sources and processes of alternative fuel production are sought. However, the evaluation of alternative-fuel production should be considered from various aspects; The present Special Issue will be focused on all catalytical processes which present new avenues for fuel production. We are seeking both reviews and research papers. Today, people are rediscovering the environmental and economic benefits of making fuel from alternative resources. Among these processes we can include catalytic processes such as Fischer–Tropsch synthesis, which is catalytically converted of syngas into liquid hydrocarbons, biodiesel and green diesel production or Bio-Jet fuel production—processes in which the biomass and vegetable oils are used as a source (substrate) in a wide spectrum of fuel production. In this Special Issue, hydrogen production is also of interest as a future fuel.