Special Issue

Renewable Heterogenous Nano-Catalysts for Alternative Fuel Production

Message from the Guest Editors

Biofuels such as biodiesel, biogas, and bioethanol have been recognized as a new alternative to overcome the energy crisis due to the availability of feedstocks for the conversion of biofuels through different chemical process and technologies. These types of biofuels are biodegradable, emit non-toxic gases. Biofuels or alternative fuels can be produced through well-established methods in the presence of suitable catalysts.

Heterogenous nano-catalysts have gained considerable recognition for biofuel synthesizing from different feedstocks. To date, low-cost catalyst derived from carbon biomass waste materials have also received tremendous attention due to several distinct properties such as high surface area and porosity, high stability, and can be modified and functionalized with active group metals. This Special Issue aims to give space to original research and review papers on the challenges and recent advancements of heterogeneous nano-catalysts for alternative fuel production and innovative applications. Research articles, short communications, brief reports, and review papers on this topic are welcome.

Guest Editors

Prof. Dr. Umer Rashid

Dr. Sibudjing Kawi

Dr. Fahad A. Alharthi

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Catalysts
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
catalysts@mdpi.com

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Prof. Dr. Keith Hohn
Carl R. Ice College of Engineering, Kansas State University, Manhattan, KS, USA

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