



Sustainable Catalysts for Biofuel Production

Guest Editors:

Prof. Dr. Giancarlo Cravotto

Department of Drug Science and
Technology, University of Turin,
Via P. Giuria 9, 10125 Turin, Italy

Prof. Dr. Umer Rashid

Institute of Nanoscience and
Nanotechnology (ION2),
Universiti Putra Malaysia,
Serdang 43400, Selangor,
Malaysia

**Prof. Dr. Chawalit
Ngamcharussrivichai**

Center of Excellence in Catalysis
for Bioenergy and Renewable
Chemicals, Faculty of Science,
Chulalongkorn University,
Phyathai Rd., Pathumwan,
Bangkok 10330, Thailand

Deadline for manuscript
submissions:

closed (20 September 2021)



mdpi.com/si/28848

Message from the Guest Editors

The role of catalysts is critical not only in the conversion process of biofuels systems but also making the overall process more efficient, less energy intensive and economically feasible. Improved sustainable catalysts are needed to increase process efficiency, reduce energy and produce cleaner products such as ultralow sulfur biodiesel. Recently, waste biomass-based catalysts such as biochar and seashells are utilized instead of costly commercial catalysts. Therefore, this special issue would cover how such cheap and effective sustainable catalysts could be developed for biofuels systems such as a catalytic approach for sustainable energy production.

For this Special Issue, we invite papers dealing with the development of bio-based heterogeneous catalysts for the synthesis of biodiesel production.

More specifically, topics of interest for the Special Issue include (but are not limited to):

- Biomass
- Bio-based catalysts
- Bio-based magnetic catalysts
- Bioproducts
- Biorenewables
- Bioenergy/biofuel byproducts
- Biodiesel
- Biolubricants
- Bioethanol
- Biomethane

Special Issue