



## Catalysis for the Production of Sustainable Fuels and Chemicals

Guest Editors:

**Prof. Dr. Flora T. T. Ng**

Department of Chemical Engineering, University of Waterloo, 200 University Avenue West, Waterloo, ON N2L 3G1, Canada

**Prof. Dr. Ajay K. Dalai**

Department of Chemical and Biological Engineering, University of Saskatchewan, Saskatoon, SK S7N 5A9, Canada

Deadline for manuscript submissions:

**closed (30 November 2019)**

### Message from the Guest Editors

Green-house gas emissions and environmental concerns have led to recent research in the use of renewable feedstocks derived from biomass, waste oils, and fats as a source of fuels and chemicals. However, these feedstocks contain a large amount of oxygen functional groups. Processing these feedstocks generally requires esterification and transesterification, deoxygenation, hydrogenation, hydrogenolysis, aldol condensation and cracking reactions. In addition, the bio-oils produced through pyrolysis and hydrothermal treatment are treated through catalytic processes for producing clean fuels. In addition, syngas produced through gasification of biomass is converted to liquid fuels. The main focus of this Special Issue is to solicit recent advances in the catalytic processing of these renewable feedstocks to produce sustainable fuels and chemicals.

