



## Frontiers in Heterogeneous Catalysis for Sustainable Chemical Transformations

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Deadline for manuscript  
submissions:

**closed (31 January 2020)**

### Message from the Guest Editors

Heterogeneous catalysis has played a crucial role in the development of modern society by facilitating commodities produced from petrochemicals, the upgrading of petroleum for fuel and energy applications, and the production of fertilizers to feed the growing population. In the future, catalysis will play an increasing role in the shift to utilizing renewable energy effectively to make chemicals.

The need to minimize the environmental impacts of producing our chemical commodities is becoming increasingly urgent. There is a great opportunity for heterogeneous catalysis to accelerate the shift towards a circular economy where our chemicals will be produced from sustainable feedstocks, with lower energy demands and with more focus on producing materials that can be easily recycled back into the chemical supply chain.

