



Design and Application of Combined Catalysis

Guest Editors:

Dr. Feng Wang

School of Food and Biological
Engineering, Jiangsu University,
Zhenjiang 212013, China

Prof. Dr. Xiyu Cheng

College of Life Sciences and
Bioengineering, School of
Physical Science and
Engineering, Beijing Jiaotong
University, Beijing 100044, China

Dr. Jianhua Hu

School of Chemical Engineering,
Inner Mongolia University of
Technology, Hohhot 010051,
China

Message from the Guest Editors

As an efficient and powerful tool, green catalysis is widely used in the catalytic production of various compounds in different fields. Recently, more efficient catalysts and/or novel strategies were developed to improve the catalytic efficiency and reduce the catalysis cost. Among them, combinatorial catalysis allows the exploration of innovative chemical reactions, where the single catalysis mode alone results in a poor reaction with low efficiency or even fails in promoting a reaction. This Special Issue focuses on different combinations of catalysis, such as enzymatic catalysis, chemical catalysis, photocatalysis, electrocatalysis, whole-cell-catalysis and so on. The principle for the design of combined catalysis will be discussed and their application will also be included. High-quality manuscripts of original research and critical reviews that address this topic are welcome for submission.

Deadline for manuscript
submissions:

31 December 2024

