## **Special Issue**

## Catalysts for Selective Oxidation of Methyl Aromatic Hydrocarbons

### Message from the Guest Editors

With the gradual changes in the global energy supply structure, refineries with increasing production scale tend to provide more high value-added chemical raw materials. Toluene and xylene are important refining products and basic raw materials for chemical production. Treated by chemical methods such as oxidation, nitration, and chlorination, series of methyl aromatic hydrocarbons with different functional groups can be obtained accordingly, which supports almost the entire fine chemical industry. Selective oxidation is one of the most important ways to functionalize methyl aromatic hydrocarbons by conversion of methyl hydrocarbons into carbon-oxygen bonds to produce oxidation products, such as aromatic alcohols, aromatic aldehydes(ketone), and aromatic acids, which are widely used in food, medicine, pesticides, dyes and other fields. Over the years, lots of researches have been performed to find efficient, convenient, and highperformance catalysts for selective oxidation of methyl aromatic hydrocarbons by oxygen, to obtain prominent selectivity and yield. These tasks are very important and worthy of attention.

### **Guest Editors**

Prof. Dr. Feng Zhang

School of Chemistry and Chemical Engineering, Nanjing University, China.

Dr. Rafael L. Oliveira

Institute of Low Temperature and Structure Research, Polish Academy of Sciences, 50-422 Wrocław, Poland

### Deadline for manuscript submissions

closed (20 March 2022)



# **Catalysts**

an Open Access Journal by MDPI

Impact Factor 4.0 CiteScore 7.6



mdpi.com/si/95671

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

mdpi.com/journal/catalysts





# **Catalysts**

an Open Access Journal by MDPI

Impact Factor 4.0 CiteScore 7.6



## **About the Journal**

## Message from the Editor-in-Chief

### **Editor-in-Chief**

Prof. Dr. Keith Hohn

Carl R. Ice College of Engineering, Kansas State University, Manhattan, KS, USA

### **Author Benefits**

### **High Visibility:**

indexed within Scopus, SCIE (Web of Science), Inspec, Ei Compendex, CAPlus / SciFinder, CAB Abstracts, and other databases.

#### Journal Rank:

JCR - Q2 (Chemistry, Physical) / CiteScore - Q1 (General Environmental Science)

### **Rapid Publication:**

manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.6 days after submission; acceptance to publication is undertaken in 2.7 days (median values for papers published in this journal in the first half of 2025).

