



## Catalytic Reactors Design for Industrial Applications

Guest Editors:

**Dr. Agus Pulung Sasmito**

Assistant Professor, Department  
of Mining and Materials  
Engineering, McGill University,  
Montreal, QC H3A2A7, Canada

**Dr. Jundika Candra Kurnia**

Department of Mechanical  
Engineering, Universiti Teknologi  
PETRONAS (UTP), Perak,  
Malaysia

Deadline for manuscript  
submissions:

**closed (20 May 2022)**

### Message from the Guest Editors

Dear Colleagues,

For decades, catalytic reaction has been widely adopted in many fields and applications, ranging from hydrogenation, semi-hydrogenation, chemical synthesis, to pollutant (such as CO<sub>2</sub> and methane) mitigation. It has attracted considerable attention from researchers worldwide due to the complex transport phenomena and reactions involved. Despite the extensive studies on catalytic reaction that have been reported, though, further studies are required to elaborate on the underlying physicochemical mechanisms of the reaction and to expedite the development of a catalytic reactor for industrial applications.

This Special Issue aims at compiling the best papers on the development and investigation of a catalytic reactor for industrial applications. Hence, we cordially invite you to contribute to this Special Issue. We welcome both experimental and computational studies. Topics of interest for this Special Issue include but are not limited to:

- Design of catalytic reactors for specific industrial applications;
- Performance enhancement and optimization of catalytic reactors;
- Technoeconomic and life cycle analysis of catalytic reactors.

