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Advances in Catalytic Oxidation of Methane and Carbon Monoxide

Guest Editors:

Message from the Guest Editors

Prof. Dr. Anil Banerjee

Dear Colleagues,

Prof. Dr. Hongxing Dai

This Special Issue aims to provide an account of recent advances in the catalytic oxidation of methane and carbon

Prof. Dr. Junhu Wang

Concepts:

monoxide.

Prof. Dr. Patrick Da Costa

1. Development of catalysts, catalytic reactions, and processes; chemical engineering reactor design, reaction kinetics and mechanism; optimum conditions, catalytic efficiency, stability and sustainability, resistance to steam deactivation.

Deadline for manuscript submissions:

 Determination of the structure and morphology of the catalyst and support, interactions of the support with the catalyst, changes in crystallite sizes, shape and chemical state of the catalyst in the presence of the support, catalyst–support interfaces, structural variations in the catalyst, effects of catalyst–support interactions on particle size distribution.

closed (31 December 2021)

3. Techniques: Improvements/innovations in catalytic process development and reactor design; analytical; chemisorption and temperature programmed reduction; theoretical/computational studies.

Applications: Catalytic activity, reaction rate, activation energy, reaction mechanism; development of more sustainable catalysts.



