



Catalysts Based on Mesoporous Materials for Environmental Application

Guest Editors:

Prof. Dr. Silvia Todorova

Institute of Catalysis, Bulgarian Academy of Sciences, 1113 Sofia, Bulgaria

Dr. Bénédicte Lebeau

Equipe Matériaux à Porosité Contrôlée, Institut de Science des Matériaux de Mulhouse, CNRS LRC 7228, Université de Haute Alsace, 68093 Mulhouse, France

Dr. Jean-Luc Blin

Faculty of Sciences and Technology, University of Lorraine, 54000 Nancy, France

Deadline for manuscript submissions:

closed (20 November 2021)

Message from the Guest Editors

Hierarchically porous catalysts have recently attracted scientific and technological interest due to their improved diffusion performance and high surface area. The hierarchically porous materials combine the chemical and physical characteristics of different porous materials and show great potential in both fundamental research and practical application. Bimodal mesoporous and macroporous silica has multiple benefits arising from the different pore-size regimes. The processes of molecular diffusion and mass transfer are greatly improved by the novel structure. In this Special Issue of Catalysts, we invite authors to submit original research papers focused on the synthesis, characterization, and modification of mesoporous and macro-mesoporous materials with transition and noble metals, and their application in processes for the removal of different pollutants from water and waste gases.

