

Special Issue

Environmental Catalysis and Air Pollution Control

Message from the Guest Editors

Environmental catalysis plays a key role in air pollution control, and the catalytic removal of typical air pollutants, such as volatile organic compounds (VOCs), nitrogen oxides (NO_x), and CO, is a hot topic. Different catalytic techniques and different catalysts are needed to control the emissions from a wide variety of mobile and stationary source processes. As the emission regulations become more and more stringent around the world, the development of advanced catalytic technology and novel catalysts becomes more desirable. Different characterization methods can provide insights into the chemistry occurring within catalysts and help understand how surface chemistry impacts performance, thus shedding light on the design of active, selective, and durable environmental catalysts. This Special Issue on “Environmental Catalysis and Air Pollution Control” aims to discuss the advances in environmental catalysis for air pollution control among leading researchers and to suggest future directions for development. Topics include, but are not limited to, the following:

- Automotive exhaust catalysts;
- Catalytic removal of VOCs;
- DeNO_x catalysts;
- Photocatalysis.

Guest Editors

Prof. Dr. Zhiming Liu

State Key Laboratory of Chemical Resource Engineering, Beijing
University of Chemical Technology, Beijing 100029, China

Prof. Dr. Chi He

State Key Laboratory of Multiphase Flow in Power Engineering, School
of Energy and Power Engineering, Xi'an Jiaotong University, Xi'an
710049, China

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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Editor-in-Chief

Prof. Dr. Giancarlo Cravotto

Department of Drug Science and Technology, University of Turin, Via P. Giuria 9, 10125 Turin, Italy

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