

Special Issue

Air Pollution Control: Catalytic Oxidation and Reduction of Gaseous Pollutants

Message from the Guest Editor

Air pollution has been posing serious and extensive threats to human health, ecology, and even the economy. While various air pollution control technologies have been developed, catalysis represents one of the most practical and efficient methods to mitigate the negative impacts of air pollutants. Specifically, catalytic oxidation and reduction processes have become key to eliminating the emissions of gaseous pollutants. As catalysts—especially heterogeneous catalysts—play crucial roles in these catalytic reactions of air pollution control, the design, development, and fabrication of efficient and advantageous catalysts are focuses in environmental chemical engineering to offer a sustainable solution to control air pollution. Thus, this Special Issue is seeking original works that describe recent advances and efforts in designing and fabricating novel catalysts for air pollution control and elucidating relationships between characteristics and catalytic activities of catalysts to offer insights into catalysis science and materials technology.

- heterogeneous catalysts
- oxidation
- reduction
- air pollutants
- environmental catalysis

Guest Editor

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