Special Issue

New VOC Depollution Techniques of Indoor and Outdoor Air

Message from the Guest Editor

Volatile organic compounds (VOCs) from human activities have become major contributors to urban air pollution. Their toxicity and their propensity to form secondary aerosols make them species to be targeted in air quality improvement policies. However, before these policies are functional, it is important to look at direct methods of depolluting cities to rapidly improve quality of life. Many different techniques exist, such as plasma, photocatalysis, catalysis, and photochemistry. This Issue will look at the latest methods developed to reduce the impact of VOCs in outdoor air at low temperatures and energy consumption. Topics of interest for the Special Issue include, but are not limited to: (1) Plasma-catalytic removal of VOCs; (2) Photocatalytic oxidation for degradation of VOCs; (3) Catalytic oxidation for the removal of VOCs; (4) Carbon Adsorption for VOCs; (5) Other new technologies on VOC depollution.

Guest Editor

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Message from the Editor-in-Chief

Continued developments in instrumentation and modeling have driven atmospheric science to become increasingly more complex with a deeper understanding of concepts, mechanisms, and interactions. This is the field that innovation built and it has led to a better appreciation for the complexity with atmosphere. Human life is intertwined in this complexity as we strive to better understand our atmosphere. Climate change is constantly stretching the limits of our thinking and forcing new ideas and concepts to be played out. Welcome to the Anthropocene!

Editor-in-Chief

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