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Air Pollution in Chemical Industries

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Message from the Guest Editors

This Special Issue aims to present recent developments in air pollution from chemical plants, which are a major source of human health and ecological deterioration. Innovations should be related to the methodology used to estimate emissions, the fate and transport of these hazardous air pollutants, and multi-pathway human and ecological risk assessments.

Currently, there are several limitations to estimating impacts. These are characterized by the collection of atmospheric pollutant concentrations on a very limited number of contaminants and at point locations without knowledge of the substances' origins. The only acceptable approach to assess the impacts are by the use of mathematical models for the exposure estimations, along with data on the transport and end-point toxicity.

The focus of this Special Issue is, therefore, to collate original research on novel models to monitor and estimate emissions, evaluate fate and transport in multimedia to receptors (humans and ecological), and assess of toxic risks coming from chemical industries.

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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!

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