Special Issue

Roadside Air Pollution

Message from the Guest Editor

Roadside air pollution is closely related with human health. In roadside environments, people are easily exposed to harmful pollutants such as nanoparticles, black carbon (BC), polycyclic aromatic hydrocarbons (PAHs), and nitrogen oxides (NOx). As diesel engine exhaust was classified as “carcinogenic to humans” (IARC, 2012), we have been making a great effort to regulate vehicle exhaust emissions over the world. In addition, non-exhaust emission from road dust resuspension and tire and brake wear is another concern. The aim of this Special Issue is to report and review recent achievements on relevant topics including on-road measurement, mobile monitoring, atmospheric dispersion using a CFD model, vehicle exhaust emission, aerosol dynamics in near-road environments, NOx–O3–VOCs chemistry, effects of buildings and trees on roadside air quality, roadside exposure assessment, etc.

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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