

## Special Issue

# Characteristics, Sources, and Impacts of Black Carbon Aerosols

### Message from the Guest Editors

Black carbon (BC), one of the most important constituents of atmospheric pollutants, is mainly emitted by the incomplete combustion of fossil fuel and biomass/biofuels. Being absorbing in nature, it can heat the atmosphere by absorbing solar radiation and changing the surface snow albedo after deposition. It is the second-largest contributor to global climate warming after CO<sub>2</sub> and also gained large attention among scientific communities due to its inimical impact on air quality, human health, hydrological cycle, carbon cycle and global climate change. An in-depth understanding of BC characteristics and their impact on different aspects is highly needed, which will be helpful for the policymakers at the regional as well as global scale. This Special Issue is focused on examining the different BC characteristics and their various impacts. Original results related to BC characteristics, their source apportionment, transport mechanism, impact on air quality and climate along with review papers are all welcome as contributions.

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### Guest Editors

Dr. Bing Chen

Dr. Shani Tiwari

Dr. Yang Wang

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### Deadline for manuscript submissions

closed (30 November 2023)



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