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Single Atmospheric Particle Analysis

Guest Editor:

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Deadline for manuscript submissions:
closed (30 June 2019)

Message from the Guest Editor

Atmospheric aerosols originate from various anthropogenic and natural sources; thereby, they exhibit diverse morphology, size, and chemical properties. Such physical and chemical properties determine their dynamic behavior in the atmosphere.

This Special Issue is motivated by the urgent need to better measure, track, and predict the mixing states of atmospheric particles. Here, we would like to invite contributions presenting recent advances both in off-line and on-line single particle analysis and their application to atmospheric aerosols. Off-line analysis may include various and new microscopic and spectroscopic techniques (e.g., SEM, TEM, EDX, Raman, FT-IR, and AFM), while on-line method may involve, but is not limited to, the development of state-of-the-art, single particle mass spectrometry, or counting instruments that can distinguish particle mixing states. Efforts to bridge the significant gap between the results of single particle analysis and numerical modeling are also welcome.

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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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