Special Issue

Aerosol mixing state: relevance to air quality, climate and public health

Message from the Guest Editors

Although significant progress has been made in aerosol research in recent decades, our understanding of aerosol physicochemical properties and the interactions between aerosols, the atmosphere, and human bodies mentioned is far from comprehensive and remains uncertain. This Special Issue focuses on the aerosol mixing state and the associated impacts on climate, air quality, and public health. We welcome studies using observations, modeling, or both. Studies utilizing but not limited to microscopy and imaging, in situ field measurements, and remote sensing observations are invited. Numerical modeling efforts including process-level, particle-resolved, regional, and global models are all welcome. In addition, data-driven approaches powered by machine learning and artificial intelligence (AI) have emerged and been applied to aerosol research in recent years. Studies incorporating these innovative approaches in the landscape of aerosol mixing state research will be greatly appreciated.

Guest Editors

Dr. Joseph Ching

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Deadline for manuscript submissions

closed (15 April 2022)

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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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