Special Issue

Atmospheric Dust: Sources, Characteristics, Impacts, and Control Strategies

Message from the Guest Editor

Complex dynamics, processes, and interactions of dust with the environment, ecosystems, and humans require thorough study in the context of climate change and human interference. The aim of this Special Issue is to integrate and summarize the contemporary insights and findings from dust pollution research. We invite submissions of original research articles and reviews on dust pollution including but not limited to:

- Source forensics of dust;
- Physical, chemical, and biological characterization of dust aerosols;
- Fate and transport of dust at both regional and global scales;
- Interaction of dust with biogeochemical and hydrological cycles;
- Influence of dust pollution on air microbiome;
- Human health and environmental impacts of atmospheric dust;
- Consequences and influence of climate change on the synergistic exchanges between atmospheric dust and land-ocean ecosystems;
- Control strategies and designs to lessen the effects of dust pollution.

Guest Editor

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Deadline for manuscript submissions

closed (30 April 2020)

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About the Journal

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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