



## Observing Atmospheric Dynamics and Dust Activity

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Deadline for manuscript submissions:

**closed (30 November 2019)**

### Message from the Guest Editor

Dear Colleagues,

Atmospheric dynamics and dust activity are interrelated phenomena, since certain atmospheric circulation patterns facilitate the emission of dust over arid/semi-arid areas around the globe and, on the other hand, radiative forcing of dust may modulate local and regional weather conditions. Dust aerosols have significant impacts on regional and global climate, air quality, marine and terrestrial ecosystems and human health and are systematically examined around the globe via a synergy of ground-based, airborne and satellite instrumentation and numerical simulations. This Special Issue seeks high-quality and innovative manuscripts focusing on the interrelation between atmospheric/meteorological dynamics and dust activity (from emission to final deposition) over global desert and semi-desert regions. Papers examining dust-radiation and dust-cloud interactions are also highly welcome, as are analyses of optical, physical, chemical and mineralogical properties of dust, the seasonality in dust activity over specific regions, sources, sinks and transport pathways of the dust plumes, along with the impacts of dust on climate, ecosystems and human health.





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## Editor-in-Chief

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## Message from the Editor-in-Chief

Understanding the Earth's origin and its bio-geological evolution, the multiple implications of the geosciences (as a coherent set of interconnected disciplines), and the sociocultural and ethical interdisciplinary approaches, will be crucial for a better understanding of Nature, and also for undertaking scientifically based political decisions.

We are committed to drive *Geosciences* to a position in which it is recognized for its high-quality, cutting-edge research and scientific influence, and strongly encourage and invite your participation and manuscripts.

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