



Airborne Measurements of Atmospheric Aerosol

Guest Editors:

Dr. Leonid Nichman

National Research Council
Canada, Ottawa, ON, Canada

Dr. Caroline Dang

NASA Ames Research Center,
Moffett Field, CA 94035, USA

Deadline for manuscript
submissions:

closed (20 June 2021)

Message from the Guest Editors

Despite the influence that atmospheric aerosols have on air quality, cloud formation, precipitation, radiative transfer, atmospheric electrification, and climate, aerosols remain the least understood component of the atmosphere, contributing to the highest uncertainty in atmospheric processes. This uncertainty can be attributed to the broad diversity of anthropogenic and natural sources, primary and secondary formation mechanisms, challenges in measurements of airborne nanoparticles, complexity of aerosol morphology and composition, and the limited number of measurements made both spatially and temporally across the globe. Other challenges specific to airborne aerosol measurements include the platform payload capacity, sampling strategies, cost, and interpretation of results.

This Special Issue seeks papers dedicated to airborne aerosol measurements, including but not limited to platforms such as weather balloons, drones, UAVs, aircraft, zeppelins and dropsondes, and the corresponding development of new airborne sensors capable of identifying various aerosol properties such as quantity, dimensions, shape, physicochemical properties, and electric charge.





an Open Access Journal by MDPI

Editor-in-Chief

Dr. Daniele Contini

Institute of Atmospheric Sciences
and Climate (ISAC), National
Research Council (CNR), Str. Prv.
Lecce-Monteroni km 1.2, 73100
Lecce, Italy

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!

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), Ei Compendex, GEOBASE, GeoRef, Inspec, CAPlus / SciFinder, Astrophysics Data System, and other databases.

Journal Rank: CiteScore - Q2 (Environmental Science (miscellaneous))

Contact Us

Atmosphere Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/atmosphere
atmosphere@mdpi.com
[X@Atmosphere_MDPI](https://twitter.com/Atmosphere_MDPI)