



## Electrostatics of Atmospheric Aerosols

Guest Editors:

**Dr. Mamadou Sow**

Nuclear Safety and Radiation  
Protection Authority (ASNR),  
PSN-RES/SCA, 91192 Gif-sur-  
Yvette, France

**Dr. Noureddine Zouzou**

Institut Pprime, CNRS Université  
de Poitiers, ISAE-ENSMA, cédex 9,  
86073 Poitiers, France

Deadline for manuscript  
submissions:

**closed (1 December 2023)**

### Message from the Guest Editors

Dear Colleagues,

The overarching goal of this Special Issue is to provide the most recent research advances regarding the effect of electrostatic phenomena on the behavior of atmospheric aerosols. Electrical effects are ubiquitous throughout the entire life cycle of atmospheric aerosols, from emission sources to transport and dry or wet removal. It was also recognized that atmospheric aerosol coagulation during their transport and subsequent deposit is influenced by their charges and interactions with atmospheric bipolar ions. To date, the contribution of electrostatic phenomena is rarely considered in models of emission, transfer or the deposition of atmospheric aerosols.

The subject covers original experimental field and laboratory studies, as well as numerical simulations or review papers, which focus on the influence of electrostatic charges, electric field and atmospheric ions on the atmospheric aerosol cycle: airborne suspension, transport coagulation and deposit. This subject also extends to extra-terrestrial environments, issues of solar panel performances and non-contact electric cleaning developments.





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](http://www.mdpi.com)

[mdpi.com/journal/atmosphere](http://mdpi.com/journal/atmosphere)  
[atmosphere@mdpi.com](mailto:atmosphere@mdpi.com)  
[X@Atmosphere\\_MDPI](https://twitter.com/Atmosphere_MDPI)