



## Remote Sensing and Observation of the Optical Properties of Aerosols

Guest Editors:

**Dr. Madhu Gyawali**

Department of Physics, San Jacinto College, South Campus, Houston, TX 77089, USA

**Dr. Rudra P. Aryal**

College of Health & Natural Sciences; Franklin Pierce University, Rindge, NH 03461, USA

**Dr. Yadav Pandit**

Department of General Education & Health Studies; Baptist Health Science University, Memphis, TN 38104, USA

Deadline for manuscript submissions:

**closed (30 July 2023)**

### Message from the Guest Editors

Dear Colleagues,

Understanding aerosols' role in Earth's energy budget is crucial to predicting and mitigating climate change since aerosol optical characteristics, scattering, and absorption affect Earth's energy budget. The purpose of this Special Issue is to bring together scientists using ground- and satellite-based remote sensing techniques and direct observations at the surface to study aerosols' optical properties. The Special Issue also illustrates surface-level and column-integrated aerosol optical properties and the influence of local air pollution sources and long-range aerosol transport on aerosol optical properties.

Dr. Madhu Gyawali

Dr. Rudra P. Aryal

Dr. Yadav Pandit

*Guest Editors*





## Editor-in-Chief

### **Prof. Dr. Ilias Kavouras**

Environmental, Occupational,  
and Geospatial Health Sciences,  
CUNY School of Public Health,  
New York, NY 10027, USA

## 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)