



## Disaster Prevention Research Institute, Kyoto University— Monitoring and Modelling Volcanic Ash Transport and Deposition

Guest Editors:

**Prof. Dr. Masato Iguchi**

Sakurajima Volcano Research  
Center, Disaster Prevention  
Research Institute, Kyoto  
University, Kagoshima 891-1419,  
Japan

**Dr. Hirohiko Ishikawa**

Research Division of Atmospheric  
and Hydrospheric, Kyoto  
University, Kyoto 604-8571,  
Japan

Deadline for manuscript  
submissions:

**closed (31 January 2021)**

### Message from the Guest Editors

Volcanic eruptions have a severe impact on surrounding communities, including a reduction in agricultural output, disruption of airline, road, and railway traffic, and adverse health effects on residents living around volcanoes. To mitigate the impacts, forecasting volcanic ash dispersal and deposition is of utmost importance. Volcanologists have made an effort to forecast volcanic eruptions and to further understand the deposition of volcanic ash. However, volcanic ash particles are strongly affected by meteorological factors, in particular by wind during processes of growth of volcanic plumes, transport and dispersal, and sedimentation. Recent advances in meteorological research and observational technology have helped to improve forecasting volcanic ash dispersal and deposition. This Special Issue is expected to advance our understanding of monitoring, modeling, and forecasting volcanic ash transport in the atmosphere and deposition on the ground. Therefore, we invite authors to submit original and review articles that aim to study the dispersal of volcanic ash, including characteristics of volcanic eruption as a source of volcanic ash and its social impact.





an Open Access Journal by MDPI

## 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, St. Alban-Anlage 66  
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)