



## Climate Change and Its Impacts on Terrestrial Ecosystems: Recent Advances and Future Directions

Guest Editors:

**Dr. Cheng Li**

**Dr. Fan Yang**

**Dr. Qitao Xiao**

**Dr. Yao Gao**

Deadline for manuscript  
submissions:

**closed (31 March 2023)**

### Message from the Guest Editors

For this Special Issue, we warmly invite scientists working in meteorology, climatology, ecology, geography, remote sensing and GIS, and environmental science to contribute novel theories, observations, and modeling studies on climate change and its impacts on terrestrial ecosystems across different time scales (historical to future) and spatial scales (regional to global). Contributions can include but are not limited to the following: regional climate change analysis using new observational data and statistical methods, the measurement and modeling of land surface–atmosphere interaction, assessments of the response of terrestrial ecosystem structure and function to climate change, climate change adaptation and mitigation in terrestrial ecosystems, etc.

Dr. Cheng Li

Dr. Fan Yang

Dr. Qitao Xiao

Dr. Yao Gao

*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, 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)