

Special Issue

Soil Carbon Storage and Climate Change with Organic Amendments in High-Altitude Ecosystems

Message from the Guest Editors

Climate change is one of the greatest challenges facing humanity and our planet, with far-reaching consequences for every nation and continent.

Sustainable Development Goal 13 underscores the urgent need for coordinated global action and the use of multidisciplinary strategies to mitigate climate change and its effects. This complex phenomenon presents both positive and negative impacts. On a global scale, climate change poses severe risks to human health and well-being, exacerbating extreme weather events and leading to catastrophic damage and widespread adverse outcomes. **Soil organic matter (SOM)** plays a critical role in climate change mitigation by serving as a significant carbon sink. The rate of soil organic carbon (SOC) sequestration depends on multiple factors, including temperature, rainfall, soil texture and structure, and land management practices. Several sustainable agricultural practices can be implemented to enhance SOC storage.

Guest Editors

Dr. Syed Turab Raza

College of Ecology and Environmental Sciences, Yunnan University,
Kunming 650500, China

Dr. Hassan Iqbal

Xinjiang Institute of Ecology and Geography, Chinese Academy of
Sciences, Urumqi, China

Deadline for manuscript submissions

31 December 2025



Atmosphere

an Open Access Journal
by MDPI

Impact Factor 2.3
CiteScore 4.9



mdpi.com/si/238691

Atmosphere
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
atmosphere@mdpi.com

[mdpi.com/journal/
atmosphere](https://mdpi.com/journal/atmosphere)





Atmosphere

an Open Access Journal
by MDPI

Impact Factor 2.3
CiteScore 4.9



[mdpi.com/journal/
atmosphere](https://mdpi.com/journal/atmosphere)



About the Journal

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!

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

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))