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.

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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

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