Special Issue

Advances in Remote Sensing of Precipitation: Interactions Among Aerosols, Clouds, and Precipitation and Their Impact on Climate Systems

Message from the Guest Editors

We are pleased to invite you to contribute to this Special Issue, which focuses on cutting-edge research that leverages remote sensing to study precipitation processes, particularly the intricate interactions among aerosols, clouds, and precipitation. This Special Issue aims to advance the scientific understanding of precipitation processes through the integration of remote sensing, AI/ML, and interdisciplinary approaches. The research contributions will explore how aerosols influence cloud formation and precipitation patterns, the feedback mechanisms involved, and their implications for climate systems. The issue aligns with the scope of *Atmosphere*, emphasizing atmospheric processes, remote sensing, and climate change impacts. By fostering a focused discussion on these topics, this Special Issue seeks to bridge gaps in current knowledge and provide innovative solutions for monitoring and mitigating the impacts of changing precipitation patterns.

Guest Editors

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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

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