Special Issue

Water Resource Challenges and Sustainable Management Solutions Under the Interaction of Climate Change and Human Activities

Message from the Guest Editors

This Special Issue aims to explore the close connections between climate change and water resources, particularly examining how regional water supply and demand will evolve amidst the increasing frequency and intensity of extreme weather events such as extreme precipitation, droughts, and floods. Additionally, accelerated melting of glaciers poses potential threats to the sustainable supply of water, further complicating water resource management. Balancing human activities with the natural water cycle has become a critical issue for global and regional sustainable development. The purpose of this Special Issue is to collect global research findings, examine the multidimensional impacts of climate change and human activities on water resources, and propose targeted solutions. It particularly emphasizes effective water resource management to ensure long-term ecological, economic, and social prosperity in promoting regional sustainable development.

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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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