

## Special Issue

# Climate Change and Regional Sustainability in Arid Lands

### Message from the Guest Editors

The impacts of climate change have been widely recognized around the world, especially in arid environments. The ecosystems of arid/semi-arid areas are often vulnerable due to the extreme climatic situation and water shortage. This Special Issue aims to explore the various aspects of climate change and its implications for regional sustainability in arid lands worldwide. We welcome contributions that investigate the interactions between the atmosphere and the land surface, focusing on topics such as water availability, energy cycles, land cover change, and adaptation strategies. Potential research areas for this Special Issue include, but are not limited to, the following:

- Regional climate modeling and projections for arid areas;
- Impacts of climate variability and change on water resources in arid regions;
- Land-atmosphere interactions and feedback mechanisms in arid ecosystems;
- Sustainable land management techniques and their role in climate resilience;
- Climate change adaptation and mitigation strategies for arid regions;
- Socio-economic implications and policy interventions for sustainable development in arid lands.

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### Guest Editors

Dr. Yang Yu

Dr. Lei Wang

Dr. Cun Chang

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### Deadline for manuscript submissions

closed (30 August 2024)



## Atmosphere

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*Atmosphere*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[atmosphere@mdpi.com](mailto:atmosphere@mdpi.com)

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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!

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### 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

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