

## Special Issue

# Modeling Interactions Among Atmosphere, Hydrosphere, and Biosphere

### Message from the Guest Editor

The Special Issue includes conceptual approaches and new model developments, as well as comparisons with experimental results and observations with respect to the following topics: ☒Environmental dependency on plant water uptake; including interactions with nutrient availability, mycorrhiza and root growth. ☒Development of water use efficiency with changes in carbon dioxide concentration. Long and short term responses of stomatal and canopy conductance. ☒Competition and facilitation in heterogeneous plant communities and their impact on resistance and resilience of the ecosystem. ☒Emission of biogenic volatile organic compounds (BVOC) in response to environmental stress. Impact of drought and air pollution and dependency on leaf traits and phenological state. ☒Air pollution removal by plants in dependence on plant physiology and vegetation structure. ☒What are the effects of diversity and spatial heterogeneity on gas exchange and deposition in a landscape? SI website: [mdpi.com/si/8538](http://mdpi.com/si/8538)

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### Guest Editor

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### Deadline for manuscript submissions

closed (28 February 2018)



## Climate

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Impact Factor 3.2  
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## About the Journal

### Message from the Editor-in-Chief

*Climate* (ISSN 2225-1154) was established in 2013 to provide an open-access outlet for innovative research, review articles, new direction papers, and short communications relevant to all disciplines related to climate at all scales. The journal encourages papers ranging from climate change detection and attribution and Earth system modeling to ecosystem, hydrologic, and socioeconomic impacts and climate mitigation and adaptation measures. The influence of *Climate* is strong and growing (IF 3.2 in 2024, CiteScore 5.7 in 2024).

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### Editor-in-Chief

Dr. Timothy G. F. Kittel  
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#### Journal Rank:

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#### Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 20.8 days after submission; acceptance to publication is undertaken in 3.8 days (median values for papers published in this journal in the second half of 2025).