Special Issue

Advances in Water Use Efficiency in a Changing Environment

Message from the Guest Editors

For decades now, terrestrial ecosystems have been experiencing significant changes such as land degradation, deforestation and drought due to the impacts of global climate change and anthropogenic activities. Investigating the spatio-temporal dynamics of ecological processes at different spatio-temporal scales is of great importance in a changing environment. Water use efficiency (WUE) is an important characteristic of ecosystem function that refers to the connections between carbon cycles and water cycles. Clarifying the underlying mechanisms of WUE patterns is vital to the global water cycle. The main goal of this Special Issue is to report the recent advances on the patterns and processes of WUE at different spatial and temporal scales in a changing environment. Submissions will address one or more of the following topics: carbon and water flux measurements, modelling of water and carbon fluxes, remote sensing estimation approach, land use and land cover change, and extreme climate events and their impacts. Other closely related topics are also welcome.

Guest Editors

Dr. Haibo Wang

Prof. Dr. Xufeng Wang

Dr. Yi Song

Deadline for manuscript submissions

closed (28 February 2023)

Water

an Open Access Journal by MDPI

Impact Factor 3.0
CiteScore 6.0

mdpi.com/si/94836

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Message from the Editor-in-Chief

In the context of global changes, the sustainable management of water cycles, going from global and regional water cycles to urban, industrial and agricultural water cycles, plays a very important role on the water resources and on their relationships with food, energy, biodiversity, ecosystem functioning and human health. *Water* invites authors to provide innovative original full articles, critical reviews and timely short communications and to propose special issues devoted to new technological and scientific domains and to interdisciplinary approaches of the water cycles. We ensure a critical review process and a quick turnaround between submission and final decision.

Editor-in-Chief

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