

Special Issue

Water Footprint and Virtual Water Trade Approaches: Applications to the Water-Energy-Food-Land Nexus in a Context of Climate Change

Message from the Guest Editors

Humanity faces major challenges to reconcile the goals of climate mitigation and adaptation, zero hunger, and sustainable use of water and land resources. Both water and land availability are limited, but demand for these resources is increasing due to the growing demand for food and energy and shifts towards more resource-intensive diets and energy mixes. Climate change projections indicate that droughts, heat waves, and floods will be increasingly recurrent in many regions worldwide. This will affect the rainfall patterns, river flows, and groundwater in terms of both water quantity and quality. Agriculture will be impacted by the erratic availability of rainfall and the limited possibilities to irrigate as competition over surface- and groundwater resources increases. Decarbonization of the economy is vital to limit global warming and climate change. However, shifting away from fossil fuels to certain alternative energy sources might increase water and land footprints [...] For further reading, please follow the link to the Special Issue Website at: https://www.mdpi.com/journal/water/special_issues/Footprint_Trade

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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

Dr. Jean-Luc PROBST

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