

Special Issue

Challenges and Innovations in Resilience of the Water-Energy-Food Nexus

Message from the Guest Editors

In this Special Issue, we welcome articles that explore stochastic variability to highlight potential risks to the nexus, such as those posed in periods of drought. To gain deeper insights into achieving the objectives we describe in our SI, we invite papers in the following themes:

Descriptions of technical solutions to safeguard the nexus within case studies, with potential applications in broader regions;

- Analysis of the trade-offs or synergies between fertilization and water use, supported by case studies and scalable applications which could be more resilience;
- Small-scale autonomous water-energy-food nexus systems in multiple climatic regions: Requirements, infrastructure, and cost-effectiveness;
- Historical case studies of famine and drought, with analysis of the root causes and cascading effects;
- Strategies and technologies for improving nexus robustness in the face of stochastic variability;
- Modeling approaches to predict and mitigate uncertainty in water, energy, and food systems;
- Lessons learned from past failures and how to apply them to modern systems to ensure food security and resource sustainability.

Guest Editors

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Dr. Theano Iliopoulou

Deadline for manuscript submissions

closed (22 September 2025)



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About the Journal

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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