

Special Issue

Advanced Perspectives on the Water–Energy–Food Nexus

Message from the Guest Editors

Water–energy–food (WEF) nexus plays an important role in addressing such sustainability challenges. Traditional sectoral policies often exacerbate WEF trade-offs—for instance, bioenergy expansion may compromise water security or irrigation intensification may increase energy scarcity—while climate change amplifies these tensions through cascading risks across scales. Emerging technological and methodological advances offer transformative potential. Transdisciplinary approaches bridge the divide between technical solutions and socio-political realities. This Special Issue of Interest include, but are not limited to, the following:

- Bridging policy silos: cross-sectoral governance for the WEF nexus management;
- Efficiency–equity synergies: metrics and governance pathways in WEF nexus systems;
- Climate-resilient WEF systems: adaptive strategies under uncertainty;
- Cascading risk in WEF networks: modeling interdependencies and mitigation strategies;
- AI-integrated decision support systems for WEF trade-offs;
- Circular bioeconomy innovations associated with wastewater and bioenergy.

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Deadline for manuscript submissions

25 July 2026



Water

an Open Access Journal
by MDPI

Impact Factor 3.0
CiteScore 6.0



mdpi.com/si/241422

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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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