

Special Issue

From Theory to Practice: Implementing Resilience, Adaptation and Drivers of Change Frameworks in Water Basin Management

Message from the Guest Editors

Water basins are currently facing unprecedented challenges caused by climate change, resource development pressures, and socio-economic transitions. While the concepts of resilience, adaptation, and drivers of change (RAD) have gained theoretical attention in water research, studies on the nexus between them and their practical implementation in management frameworks remain limited. This Special Issue specifically focuses on bridging the gap between theory and practice in water basin governance. We welcome contributions that demonstrate how RAD concepts can be integrated and operationalized through management tools, governance reforms, decision-support systems, and on-ground implementation strategies. Papers should move beyond conceptual discussions to provide evidence-based approaches, practical case studies, evaluation metrics, and implementation pathways that enable water managers and policymakers to embed RAD thinking into everyday practice. This Special Issue aims to accelerate the transition from theoretical RAD frameworks to actionable management approaches that enhance the sustainability and resilience of water basins in the face of increasing uncertainty.

Guest Editors

Dr. Leonie J. Pearson

Centre for Environmental Governance, University of Canberra, Bruce, ACT 2617, Australia

Dr. Josephine Mummery

Centre for Environmental Governance, University of Canberra, Bruce, ACT 2617, Australia

Deadline for manuscript submissions

31 December 2025



Water

an Open Access Journal
by MDPI

Impact Factor 3.0
CiteScore 6.0



mdpi.com/si/241771

Water
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
water@mdpi.com

[mdpi.com/journal/
water](https://mdpi.com/journal/water)





Water

an Open Access Journal
by MDPI

Impact Factor 3.0
CiteScore 6.0



[mdpi.com/journal/
water](https://mdpi.com/journal/water)



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

Centre de Recherche sur la Biodiversité l'Environnement (CRBE) UMR
CNRS/UPS/INPT/IRD, Centre National de la Recherche Scientifique
(CNRS), University of Toulouse, Campus ENSAT, Auzeville Tolosane,
Toulouse, France

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, GEOBASE, GeoRef, PubAg, AGRIS, CAPlus / SciFinder, Inspec, and other databases.

Journal Rank:

JCR - Q2 (Water Resources) / CiteScore - Q1 (Aquatic Science)