

Special Issue

Economic Analysis of Water Resources Management and the Environmental Impacts of Hydraulic Infrastructure

Message from the Guest Editors

Water resources management and hydraulic infrastructure are deeply intertwined components of regional development. As key instruments of water regulation and allocation, hydraulic projects—such as dams, reservoirs, and irrigation systems—not only support industrial growth and urbanization but also reshape hydrological processes and ecological patterns. In many regions, unsustainable water use and infrastructure expansion have exceeded environmental carrying capacities, leading to pollution, ecosystem degradation, and intensified water-related risks. This Special Issue focuses on the economic analysis of water resources management in conjunction with the environmental impacts of hydraulic infrastructure. We aim to explore how economic tools—such as cost-benefit analysis, environmental valuation, and virtual water accounting—can be used to assess and guide infrastructure development, ecological protection, and sustainable water governance in diverse socio-economic contexts.

Guest Editors

Dr. Changfeng Shi

School of Economics and Finance, Hohai University, Changzhou, China

Dr. Lina Zhang

Business School, Hohai University, Nanjing, China

Deadline for manuscript submissions

20 January 2026



Water

an Open Access Journal
by MDPI

Impact Factor 3.0
CiteScore 6.0



mdpi.com/si/247184

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)