Special Issue

Artificial Intelligence in Water Science: Opportunities, Prospects, and Concerns

Message from the Guest Editor

The application of artificial intelligence (AI) in water science is rapidly advancing research and practice. Machine learning, deep learning, and predictive modeling have led to significant advancements in wastewater treatment, pollution monitoring, and water quality optimization. Notable achievements include enhanced flood prediction, real-time water quality monitoring, and improved efficiency in wastewater treatment and irrigation management. AI's ability to process large datasets and improve decision-making supports more effective and sustainable water management practices. These innovations are crucial for addressing global water challenges and ensuring long-term water sustainability. We invite authors to submit original research and review articles that explore the application of artificial intelligence (AI) in conventional water science fields such as wastewater, groundwater, and surface water. Additionally, we encourage submissions that investigate the application of AI in conjunction with materials science, biology, and other related disciplines, to unlock innovative solutions to complex water-related challenges.

Guest Editor

Dr. Jinfeng Wang
School of Environment, Nanjing University, Nanjing 210023, China

Deadline for manuscript submissions

25 July 2025

Water

an Open Access Journal by MDPI

Impact Factor 3.0
CiteScore 5.8

mdpi.com/si/224855

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

mdpi.com/journal/water

Water

an Open Access Journal by MDPI

Impact Factor 3.0
CiteScore 5.8

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 (Water Science and Technology)

MDPI