# **Special Issue**

# Potential of Artificial Intelligence in Addressing Critical Challenges Related to Water Resources

## Message from the Guest Editors

This Special Issue aims to disseminate and discuss advances in AI technologies, promoting sophisticated solutions to enhance and ensure the quality of water treatment. We invite original and unpublished contributions in various application areas, including the following:

- Artificial intelligence for water quality surveillance and management.
- Al applications for the early detection of water pollution.
- Optimization of water treatment processes through artificial intelligence.
- Intelligent systems for sustainable water resource management.

We welcome contributions of unpublished research exploring various aspects of artificial intelligence for water treatment, such as the following:

- Modeling water treatment processes, including adsorption, photodegradation, oxidation, etc.
- Intelligent technologies for the real-time monitoring of water parameters.
- Al-based predictive modeling for water quality.
- Deep learning applications in the detection and elimination of contaminants.
- Al systems for optimizing water treatment processes.
- Al approaches for intelligent management of water networks.

#### **Guest Editors**

Prof. Dr. Abdeltif Amrane

Ecole Nationale Supérieure de Chimie de Rennes, CNRS, ISCR-UMR 6226, Université de Rennes, F-35000 Rennes, France

Dr. Jie Zhang

School of Engineering, Newcastle University, Newcastle upon Tyne NE1 7RU, UK

# Deadline for manuscript submissions

25 January 2026



# Water

an Open Access Journal by MDPI

Impact Factor 3.0 CiteScore 6.0



mdpi.com/si/199133

Water
Editorial Office
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 6.0



# **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)

