

Special Issue

Techniques for Coastal Aquifer Management and Seawater Intrusion Characterization

Message from the Guest Editors

This Special Issue invites innovative research aimed at advancing the characterization of coastal aquifers, as well as understanding the processes related to freshwater–saltwater interactions. We are particularly interested in contributions that integrate field observations, laboratory analyses, numerical modeling, remote sensing, geophysical data and emerging digital technologies, fostering a more comprehensive understanding of salinization dynamics and risk mitigation. Key topics of interest include:

Characterization and monitoring of coastal aquifers

Hydrochemical and isotopic tools for diagnosing salinization

Groundwater–surface water and groundwater–seawater interactions

Managed Aquifer Recharge (MAR) in coastal settings
Desalination, brine management, and salinity reduction techniques

Conceptual and numerical modeling of coastal aquifer systems

Remote sensing, sensors, Big Data, Machine Learning, and AI for monitoring and management

Impacts of climate change, sea level rise, and drought on coastal groundwater

Governance, regulation, and user community participation in coastal aquifer management

Nature-based solutions and resilience strategies for coastal water security

Guest Editors

Dr. Alex Sendros

Prof. Dr. Albert Casas Ponsati

Prof. Dr. María del Carmen Cabrera Santana

Deadline for manuscript submissions

25 December 2026



Water

an Open Access Journal
by MDPI

Impact Factor 3.5
CiteScore 6.7



mdpi.com/si/278038

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 3.5
CiteScore 6.7



[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)