

## Special Issue

# Coastal Geomorphology Response to Environmental and Climate Change

### Message from the Guest Editors

It is crucial to disseminate the latest scientific knowledge on sediment planning, management, and dynamics in coastal environments in response to both natural and climate-induced changes, as well as the impact of built infrastructure. This Special Issue invites significant research contributions on in situ and remote sensing sediment monitoring (both natural and artificial), natural coastal deposition and artificial nourishment, coastal erosion and morphodynamics, coastal dredging, the effects of climate change, and decision support systems. Case studies that address specific challenges are particularly welcome, as are analytical, physical, and numerical modelling contributions, and novel approaches that involve machine learning and artificial intelligence. Keywords

- geomorphology
- climate change
- infrastructures
- modelling
- nature-based solutions
- monitoring
- machine learning and artificial intelligence

---

### Guest Editors

Dr. Joaquim Pais-Barbosa

1. ISQ Group—Interface and Technology Center, Rua do Mirante, n° 258, 4415-491 Grijó, Portugal

2. RISCO, Civil Engineering Department, Campus Universitário de Santiago, 3810-193 Aveiro, Portugal

3. proMetheus, Instituto Politécnico de Viana do Castelo, 4900-348 Viana do Castelo, Portugal

Dr. Márcia Lima

1. RISCO, Civil Engineering Department, Campus Universitário de Santiago, 3810-193 Aveiro, Portugal

2. Porto University Center (CUP), Lusofona University, 4000-098 Porto, Portugal

---

### Deadline for manuscript submissions

closed (15 April 2025)



## Water

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.0  
CiteScore 6.0



[mdpi.com/si/219087](https://mdpi.com/si/219087)

*Water*

Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[water@mdpi.com](mailto:water@mdpi.com)

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