Special Issue

Hydrodynamics and Sediment Transport in Rivers, Lakes, Coasts and Estuaries

Message from the Guest Editors

The Special Issue aims to assemble cutting-edge, interdisciplinary studies that deepen fundamental understanding of hydro-sedimentary processes under changing environmental forces. This issue prioritizes research that integrates field observations, numerical modeling, and theoretical analysis to unravel the mechanisms governing sediment transport, morphological change, and eco-hydrodynamic feedbacks in rivers, lakes, coasts, and estuaries. We kindly invite researchers worldwide to submit original research articles, comprehensive reviews, and short communications in this field. Topics of interest include, but are not limited to, the following:

- Multi-scale hydro-sedimentary process dynamics and their response to climate–human perturbations;
- Coupled effects of extreme events (e.g., floods, storm surges) on sediment budget and morphological evolution;
- Eco-hydrodynamic interactions and ecological service change;
- Innovative monitoring, observation, and modeling techniques for hydro-sedimentary systems;
- Adaptive management and restoration strategies for perturbed hydro-geomorphic systems.

Guest Editors

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Deadline for manuscript submissions

20 July 2026

Water

an Open Access Journal by MDPI

Impact Factor 3.0
CiteScore 6.0

mdpi.com/si/265197

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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

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