Special Issue

Mathematical Modeling of Sediment Transport in Coastal Areas

Message from the Guest Editor

Investigation of the mechanisms governing the interactions between waves, currents, and sediments is necessary for engineers to design the ports and protect the shores, for the scientists to provide an insight into the unknown coastal processes, and for managers and environmental activists to manage the coast and protect the shorelines. Mathematical models as strong tools to study the coastal phenomenon must be developed to reveal the unknown physical aspects of the coastal processes and sediment dynamics. In this Special Issue, we invite scientists working on different aspects of sediment transport, in muddy, sandy or mixed environments with a focus on mathematical (numerical/analytical) models, to share their most recent results/findings/approaches, and give reviews or examples encompassing different aspects of wave–current–sediment interactions and sediment dynamics in coastal zones. Papers may deal with wave, current, and sediment analysis, numerical modeling or analytical solutions and should be supported by experimental/field studies.

Guest Editor

Dr. Denys Dutykh

CNRS - LAMA UMR 5127, University Savoie Mont Blanc, University Grenoble Alpes, 73376 Le Bourget-du-Lac, France

Deadline for manuscript submissions

closed (28 February 2022)

Water

an Open Access Journal by MDPI

Impact Factor 3.0
CiteScore 6.0

mdpi.com/si/59619

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

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)

MDPI