Special Issue

Hydrodynamics and Sediment Transport in Ocean Engineering

Message from the Guest Editors

To accommodate our ever-increasing energy needs, the exploration of oil and natural gas is marching toward the deep sea, and tremendous efforts have been made toward developing viable renewable energy sources from the ocean. It is utterly important and challenging to guarantee the safety of offshore structures constructed in the ocean for the purpose of extracting resources and energy. Ocean hydrodynamics, such as waves, tidal currents, tropical storms, and even internal waves, have different characteristics and may result in variable kinds of failure in offshore structures. The sediment transport on the seabed due to the long actions of ocean hydrodynamics can also change the seabed morphology, such as the local scour, the large-scale seabed evolution, etc., which may have significant influences on the stability of offshore structures. This Special Issue aims to collect articles that highlight the research on hydrodynamic and sediment transport in ocean engineering through variable methods, including theoretical analyses, numerical simulations, and experiments. It covers a variety of topics including.....

Guest Editors

Dr. Zhipeng Zang
School of Civil Engineering, Tianjin University, Tianjin, China
Dr. Ming Zhao
School of Engineering, Design and Built Environment, Western Sydney University, Penrith, NSW, Australia

Deadline for manuscript submissions

closed (25 December 2024)

Water

an Open Access Journal by MDPI

Impact Factor 3.0
CiteScore 6.0

mdpi.com/si/170711

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