

## Special Issue

# Advances in Hydrodynamics and Its Interaction with Large-Scale Offshore Structures

### Message from the Guest Editors

This issue will focus on wave hydrodynamics and its interaction with offshore structures. As the global exploitation and development of offshore resources continue to intensify, these structures face increasingly complex marine environmental challenges, particularly in terms of performance and safety under extreme wave conditions. We welcome original research and review articles on, but not limited to, the following topics: Characteristics of hydrodynamic loads on offshore structures under extreme wave conditions; Dynamic response analysis of structures such as cross-strait bridges, offshore photovoltaics, offshore wind turbines, etc.; The impact of hydrodynamic loads on the design and construction of structures; Solutions of fluid-structure interaction problems in offshore structures; Hydro-elastic design and stability analysis of structures; The applications of experimental and numerical simulations in hydrodynamic load research. We look forward to your contributions providing new insights and solutions for the design and safe operation of offshore structures.

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### Guest Editors

Dr. Qinghe Fang

Dr. Azhen Kang

Dr. Xiaodong Bai

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### Deadline for manuscript submissions

closed (20 May 2025)



## Water

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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.

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### Editor-in-Chief

Dr. Jean-Luc PROBST

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