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Wave–Structure Interaction: Research, Modeling and Future Application

Guest Editors:

Dr. Chen Hao
Marine Technology, Newcastle University, Newcastle Upon Tyne, UK

Dr. Hui Liang
Technology Centre for Offshore and Marine, Singapore (TCOMS), Singapore 118411, Singapore

Dr. Yong Zhao
School of Ship and Ocean Engineering, Dalian Maritime University, Dalian, China

Deadline for manuscript submissions:
30 September 2024

Message from the Guest Editors

Dear Colleagues,

Wave–structure interaction is a pivotal area in coastal and ocean engineering, encompassing a diverse range of research topics. From breakwater design to advancing marine renewable energy devices and enhancing offshore aquaculture systems, this field is integral to the development of innovative marine technology and infrastructure. A thorough understanding of the interaction between water waves (including regular, irregular, shallow water, and breaking waves etc.) and coastal and marine structures is vital for technological and infrastructural advancements in marine environments.

This Special Issue will focus on the research, modeling, and future applications of wave–structure interaction. We welcome submissions covering any aspect of this field. This includes, but is not limited to, laboratory or field experiments, Eulerian and Lagrangian numerical modeling approaches, and the application of machine learning techniques. Papers that provide an overview of a particular research area and highlight the current and future challenges associated with these topics are also welcome.

Dr. Hui Liang
Dr. Chen Hao
Guest Editors

Dr. Yong Zhao
Gues Editor Assistant

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Special Issue

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Editor-in-Chief

Dr. Jean-Luc PROBST
Laboratory of Functional Ecology and Environment, Centre National de la Recherche Scientifique (CNRS), University of Toulouse, Campus ENSAT, Auzeville Tolosane, France

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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Contact Us

Water Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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water@mdpi.com
𝕏@Water_MDPI