

## Special Issue

# Wave Phenomena in Ship and Marine Hydrodynamics

### Message from the Guest Editor

Wave phenomena in ship and marine hydrodynamics include flow interactions with marine vehicles. Some of the important topics are resistance and propulsion in waves, as well as controllability, wave loads, wave induced motions, energy performance, and marine renewable energy. A better understanding and application of the methods for the hydrodynamic analysis of ships and marine structures is of the utmost importance concerning their design and operation. This Special Issue aims to discuss the recent advances on wave hydrodynamics in ship and ocean engineering, and other related fields such as renewable marine energy. Specific topics include the following: Linear and nonlinear waves and currents in offshore and nearshore environment Computational wave hydrodynamics and numerical wave tank Wave–structure interactions and hydro–elasticity effects Environmental loads and underwater noise Resistance, propulsion, seakeeping, and maneuverability of ships in waves Hydrodynamics of renewable marine energy systems and ocean resources Experimental techniques for towing tank, wave flume and water basin Other aspects of wave hydrodynamics in ship and ocean engineering.

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### Guest Editor

Prof. Dr. Kostas Belibassakis  
School of Naval Architecture & Marine Engineering, National Technical University of Athens, Athens, Greece

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### Deadline for manuscript submissions

closed (30 September 2020)



## Journal of Marine Science and Engineering

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*Journal of Marine Science and  
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Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[jmse@mdpi.com](mailto:jmse@mdpi.com)

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## About the Journal

### Message from the Editor-in-Chief

*Journal of Marine Science and Engineering (JMSE*, ISSN: 2077-1312) focuses on research in the fields of Ocean Engineering, Coastal Engineering, Physical Oceanography, Geological Oceanography, Marine Biology, and Marine Environmental Science. It publishes reviews, regular research papers, and short communications, as well as Special Issues on particular subjects. Our aim is to encourage scientists to publish their experimental and theoretical results in as much detail as possible. There is no restriction on the maximum length of the papers.

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### Editor-in-Chief

Prof. Dr. Charitha Pattiaratchi

School of Engineering, The UWA Oceans Institute, The University of Western Australia, Perth, WA 6009, Australia

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#### Journal Rank:

JCR - Q2 (Engineering, Marine) / CiteScore - Q2 (Ocean Engineering)

#### Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.5 days after submission; acceptance to publication is undertaken in 2.5 days (median values for papers published in this journal in the second half of 2025).