Special Issue

Modeling Positive Buoyant Material in Water for the Hydrogeological Risk Evaluation and Management

Message from the Guest Editors

The interest in hydraulic risk is continuously increasing due to both the increased human exposure and the rise of extreme events. Many hydraulic hazard phenomena of recent interest involve positively buoyant materials, both natural and human-made. For example, human access to remote areas has increased exposure to the risk of tsunamis generated by natural positive buoyancy materials, such as pyroclastic flow, snow avalanche, or iceberg calving. In addition, flood damage, especially in urban areas, is mainly due to the transport and impact of floating materials of various types, from lumber to vehicles to garbage. Finally, plastic pollution, by now present in all oceans and all the larger rivers worldwide, often consists of positively buoyant debris. Thus, appropriate knowledge and modeling of the interaction of positive buoyant materials with water is crucial for the study of such phenomena and, consequently, for the assessment and management of their impact.

Guest Editors

Dr. Gianluca Zitti

Department of Civil and Building Engineering, and Architecture, Università Politecnica delle Marche, Via Brecce Biance, 60131 Ancona, Italy

Prof. Dr. Hung Tao Shen

Department of Civil and Environmental Engineering, Clarkson University, Potsdam, NY 13699-5710, USA

Deadline for manuscript submissions

closed (5 November 2023)

Journal of Marine Science and Engineering

an Open Access Journal by MDPI

Impact Factor 2.8
CiteScore 5.0

mdpi.com/si/141411

Journal of Marine Science and Engineering
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
jmse@mdpi.com

mdpi.com/journal/jmse

Journal of Marine Science and Engineering

an Open Access Journal by MDPI

Impact Factor 2.8
CiteScore 5.0

mdpi.com/journal/jmse

MDPI

About the Journal

Message from the Editor-in-Chief

The *Journal of Marine Science and Engineering* (*JMSE*; ISSN 2077-1312) is an international peer-reviewed open access journal which provides an advanced forum for studies related to marine science and engineering. The journal aims to provide scholarly research on a range of topics, including ocean engineering, chemical oceanography, physical oceanography, marine biology and marine geosciences. We invite you to publish in our journal sharing your important research findings with the global ocean community.

Editor-in-Chief

Prof. Dr. Charitha Pattiaratchi
School of Engineering, The UWA Oceans Institute, The University of Western Australia, Perth, WA 6009, Australia

Author Benefits

High Visibility:

indexed with Scopus, SCIE (Web of Science), Ei Compendex, GeoRef, Inspec, AGRIS, and other databases.

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 15.6 days after submission; acceptance to publication is undertaken in 1.9 days (median values for papers published in this journal in the first half of 2025).