

## Special Issue

# Bioturbation in Marine Ecosystems: Current and Future Challenges

### Message from the Guest Editor

With the growing pressure of climate change and the need for nature-based solutions and preservation of biodiversity, we still lack knowledge on important mechanisms governing the functioning of ecosystems, particularly when the benthic fauna component is considered. Therefore, we invite articles based on laboratory and field experiments and on the bioturbation of single, invasive, multiple species or whole benthic-fauna community. Topics relating to bioturbation and key ecosystem functions, such as influence on carbon degradation/burial, nutrient regeneration, microbial interactions, alkalinity/carbonate dissolution, and effects on post-depositional processes of blue carbon in saltmarshes, seagrasses, and mangroves, are welcome. New techniques are also required for understanding and upscaling single species or community bioturbation effects to whole ecosystem assessments. These contributions will pave the way for extended knowledge of complex and context dependent bioturbation processes and hopefully advance ecological, biogeochemical, and climate models as well as the development of restoration actions.

### Guest Editor

Dr. Cintia Organo Quintana

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### Deadline for manuscript submissions

closed (10 September 2021)



## Journal of Marine Science and Engineering

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## 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.

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### Editor-in-Chief

Prof. Dr. Charitha Pattiaratchi  
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