

## Special Issue

# Marine Microalgae: Taxonomy, Diversity and Biogeography

### Message from the Guest Editors

Marine microalgae are foundational to ocean ecosystems and the global carbon cycle. Yet their true taxonomic breadth and spatial-temporal dynamics remain incompletely resolved, owing to cryptic diversity, plastic morphologies, and undersampling across environmental gradients. This Special Issue invites studies that refine microalgal systematics and expand our view of diversity using combined morphological, molecular, and ecological evidence, including phylogenomics, metabarcoding, and environmental DNA approaches. We particularly welcome contributions that connect taxonomic resolution to functional traits and environmental niches to explain distributional ranges, endemism, and community turnover under natural variability and climate-driven change. Submissions addressing the biogeography of harmful and bloom-forming taxa, trait-environment coupling, dispersal and population structure, and mechanistic or statistical models that link observation with process are encouraged.

### Guest Editors

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### Deadline for manuscript submissions

closed (10 April 2026)



## Journal of Marine Science and Engineering

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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

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#### 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).