



Advances in Marine Dissolved Organic Matter Dynamics

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Message from the Guest Editors

Dear Colleagues,

Marine dissolved organic matter (DOM) is one of the largest reservoirs of carbon on the planet and represents the main source of energy for heterotrophic prokaryotes. Containing as much carbon as the atmosphere and having a great ecological significance, DOM plays a key role in regulating air–sea CO₂ exchanges and oceanic carbon sequestration that, ultimately, controls the Earth’s climate.

This Special Issue aims at publishing the most exciting research with respect to in-field, laboratory, biogeochemical modeling, and space-based studies that can help to understand where we are and how we go further in the knowledge of marine DOM. Multiplatform observations and studies on DOM–microbe interactions are welcomed. Investigations both at the global as well as at the regional scale are encouraged.

Dr. Chiara Santinelli
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Guest Editors





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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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