Special Issue

Isotopic Analysis of Marine Sediments

Message from the Guest Editors

Marine sediments are vital archives of Earth's environmental history, and isotopic analysis offers powerful tools that allow us to reconstruct past climates, ocean biogeochemistry, and biogeochemical cycles.

The Special Issue will highlight advances in isotopic techniques applied to marine sediments. We are seeking studies that deepen our understanding of oceanographic processes, climate variability, and sedimentary geochemistry across spatial and temporal scales. In the decades since isotopic analysis was introduced in marine science, the field has expanded from palaeoceanography to pollution tracking. Recent innovations include high-resolution isotopic stratigraphy, compound-specific isotope analysis, and the use of non-traditional isotopes. These approaches, combined with advanced instrumentation and modeling, are transforming our ability to interpret the sedimentary records.

We welcome original research, reviews, and methodological papers on topics such as climate reconstruction, sediment diagenesis, nutrient cycling, and anthropogenic signals. Interdisciplinary studies integrating isotopic data with biological, physical, or modeling approaches are of particular interest.

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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.

Editor-in-Chief

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