

Special Issue

Marine Diatoms from Physiology to Ecology and Biotechnology

Message from the Guest Editors

Marine diatoms are the dominant components of phytoplankton and the major primary producers in the marine environment. Due to their frustule and metabolic plasticity, they are considered a valuable feedstock for organic and inorganic compounds useful for application in several biotechnological fields. Example areas of interest are bioenergy, food and feed supplements production, cosmeceutical and pharmaceutical applications, but also nanotechnology with engineered biosensors, drug delivery systems, solar cells, etc. Diatoms are also used as bio-indicators, for the phytoremediation of heavy metals, for biomitigation processes, and are proposed to contrast emerging contaminants, such as micro- and nanoplastics, too.

The purpose of this Special Issue is to publish high-quality research papers, short communications, as well as review articles on the recent advances on marine diatoms, with special emphasis on their basic biology, physiology, and ecological role, especially in view of biotechnological applications of their biomass or components.

Guest Editors

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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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