

Special Issue

Biochemical Interactions Between Microalgae and Marine Environment

Message from the Guest Editors

Microalgae play a fundamental role in marine ecosystems, serving as primary producers and contributing significantly to ecosystem stability, nutrient cycling, and the global climate system. These highly adaptable organisms can survive and thrive in diverse and often extreme environmental conditions. However, like all living organisms, they are susceptible to various environmental stressors, including nutrient imbalances, temperature fluctuations, or pollution, which can impact their growth, metabolism, and survival. This Special Issue explores the intricate interactions between microalgae and their environments, providing insights into how these interactions influence the broader ecosystem. Additionally, it highlights recent research on harnessing microalgae for biotechnological applications such as bioremediation and carbon capture and as sources of bioactive compounds. This Special Issue aims to publish high-quality original research and review articles that advance our understanding of the ecological functions of microalgae and their innovative applications in addressing environmental and industrial challenges.

Guest Editors

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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.

Editor-in-Chief

Prof. Dr. Charitha Pattiaratchi

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