

Special Issue

Advances in Biology and Microbial Ecology for the Ocean Environment

Message from the Guest Editors

Marine microorganisms play a crucial role in the functioning of the entire Earth system. By transforming essential elements such as carbon, nitrogen, and phosphorus, they not only regulate energy transfer in the marine system, but also modulate the global climate.

This Special Issue will explore essential aspects of the diversity and functioning of marine microbial communities, their role in biogeochemical cycles, their interactions with other organisms, and their impact on ocean and climate dynamics, with emphasis on multidisciplinary environmental studies based on culture-dependent and omics-based methods.

Contributions focusing on the biology and environmental and biotechnological applications of marine microbes will also be welcome. By integrating these topics, a better approach to environmental marine microbiology and its biotechnological potential will be established, providing new insights into the functional role and ecological importance of marine microorganisms in processes ranging from local to planetary scales.

Guest Editors

Dr. Alexander Galán

Centro de Investigación de Estudios Avanzados del Maule (CIEAM), Vicerrectoría de Investigación y Postgrado and Departamento de Obras Cíviles, Facultad de Ciencias de la Ingeniería, Universidad Católica del Maule, Talca 3480112, Chile

Prof. Dr. Aparna Banerjee

Centro de Investigación en Estudios Avanzados del Maule (CIEAM), Vicerrectoría de Investigación y Posgrado, Universidad Católica del Maule, Av. San Miguel 3605, Talca, Chile

Deadline for manuscript submissions

20 November 2026



Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.5



mdpi.com/si/253243

Applied Sciences
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
applsci@mdpi.com

mdpi.com/journal/

[applsci](https://mdpi.com/journal/applsci)





Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.5



[mdpi.com/journal/
applsci](https://mdpi.com/journal/applsci)



About the Journal

Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32,
20133 Milano, Italy

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, Inspec, Embase, CAPIus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)