Special Issue

The Industrial Feasibility of Biosurfactants

Message from the Guest Editor

Biosurfactants are surface-active compounds produced by microorganisms such as bacteria, yeast, and fungi. The choice of microorganism and medium composition, including carbon and nitrogen sources, influences the vield and properties of the biosurfactants produced. In the petroleum industry, they can be used for microbialenhanced oil recovery and the bioremediation of oil spills. In the food industry, they can be used as emulsifying agents, stabilizing blends of water and oil in products such as sauces and dressings. Biosurfactants are also valuable in the cosmetic and pharmaceutical industries, where they function as emulsifiers, foaming agents, and wetting agents in formulations such as creams, lotions, and shampoos. Additionally, in the agricultural sector, they are utilized for biocontrol against plant pathogens and in eco-friendly pesticide formulations. The versatility and sustainability of biosurfactants continue to drive research and innovation in their production and application. Therefore, this Special Issue is focused on, but not limited to, the production of biosurfactants, including yields, purification, culture medium composition, scale-up, etc.

Guest Editor

Prof. Dr. Cristiano José De Andrade

Chemical and Food Engineering Department, Federal University of Santa Catarina, Florianópolis 88040-900, SC, Brazil

Deadline for manuscript submissions

30 April 2026



Fermentation

an Open Access Journal by MDPI

Impact Factor 3.3 CiteScore 5.7



mdpi.com/si/231611

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

mdpi.com/journal/ fermentation





Fermentation

an Open Access Journal by MDPI

Impact Factor 3.3 CiteScore 5.7



About the Journal

Message from the Editor-in-Chief

Welcome to a new open access journal, Fermentation, which meets the growing need for a high quality peerreviewed international journal with easy access to all researchers globally. We hope that you will share our enthusiasm for this new journal and look forward to working with you to make Fermentation a leader in its field. Your contributions are vital for the success of this new journal. Proposals for editing a special issue for a particular topical area are always welcome.

Editor-in-Chief

Dr. Badal C. Saha

Retired, National Center for Agricultural Utilization Research, USDA-ARS, Peoria, IL, USA

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubAg, FSTA, Inspec, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Biotechnology and Applied Microbiology) / CiteScore - Q1 (Plant Science)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 15.5 days after submission; acceptance to publication is undertaken in 3.9 days (median values for papers published in this journal in the first half of 2025).

