

Special Issue

Advancements in Biosurfactants: Production, Characterization and Multifaceted Applications

Message from the Guest Editors

Biosurfactants, amphiphilic compounds produced by microorganisms, are molecules of significant interest due to their diverse applications and environmental importance. These compounds possess unique properties that enable them to reduce surface and interfacial tensions, making them valuable in various industrial, environmental, and biomedical fields. This Special Issue aims to collate cutting-edge research in the field of biosurfactants. This collection of articles will address crucial aspects such as biosurfactant production methodologies, advanced characterization techniques, and the broad spectrum of applications across various industries. Emphasizing the environmental and industrial significance of biosurfactants, this Special Issue seeks to foster a deeper understanding of their roles in enhancing bioremediation, improving microbial enhanced oil recovery, and promoting sustainable practices. We invite contributions that showcase novel insights, methodologies, and real-world applications contributing to the continued evolution of biosurfactant science.

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Deadline for manuscript submissions

closed (10 July 2025)



Processes

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