

Special Issue

Advances in Bioprocess Technology, 2nd Edition

Message from the Guest Editors

The second edition of the Special Issue “Advances in Bioprocess Technology” aims to highlight cutting-edge research and technological developments in the field of bioprocessing, with particular attention to sustainable and eco-friendly approaches. Bioprocess technology plays a pivotal role in modern biotechnology, enabling the transformation of biological materials into valuable products such as biofuels, biochemicals, enzymes, and therapeutic agents. This Special Issue will cover the entire spectrum of bioprocesses, including upstream processing (e.g., medium preparation, microbial strain selection, and optimization), fermentation (the core bioconversion step using microbial or enzymatic systems), and downstream processing (product recovery, purification, and waste management). Contributions addressing biomass conversion from lignocellulosic materials, gasification, enzymatic processes, and the valorization of agro-food waste are particularly encouraged. Moreover, studies focusing on the integration of biological and engineering principles, process modeling, scale-up, and optimization techniques are welcome.

Guest Editors

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