



Design and Application of Microalgal Bioreactors

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Deadline for manuscript
submissions:
closed (31 October 2025)

Message from the Guest Editors

Dear Colleagues,

Microalgae possess significant value across multiple fields, serving as food, feed, cosmetics, nutrition, and medicine, while also playing a pivotal role in green manufacturing, renewable energy production, and environmental ecological protection. However, the expansion of these applications has been hampered by a key challenge: the limited availability of microalgal biomass. The crux of this issue lies in achieving low-cost and high-density cultivation, which necessitates the optimization and scaling-up of bioreactors.

To address this, we aim to bring together the latest advancements in research and application, particularly focusing on the innovative design theories, optimization techniques, and practical applications of microalgal bioreactors.





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