

Special Issue

Design and Application of Microalgal Bioreactors

Message from the Guest Editors

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.

Guest Editors

Dr. Zhen Zhang

Department of Biotechnology and Biomedicine, Yangtze Delta Region Institute of Tsinghua University, Jiaxing 314006, China

Dr. Leonardo Zambotti-Villela

Department of Biochemistry, Chemistry Institute, University of Sao Paulo, Sao Paulo 05508-900, Brazil

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Editor-in-Chief

Prof. Dr. Giancarlo Cravotto

Department of Drug Science and Technology, University of Turin, Via P. Giuria 9, 10125 Turin, Italy

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