# **Special Issue**

# Application of Fermentation Technology in Biomass Utilization and Biofuels Production, 2nd Edition

### Message from the Guest Editor

Bioenergy-encompassing solid, liquid, or gaseous biofuels fermented from sugars embedded in biomassis a sustainable alternative to fossil fuels as it can be produced from renewable sources that can be continuously replenished. Despite the potential benefits of bioenergy, various challenges remain in the application of fermentation technology in biomass utilization and biofuel production. We thus invite researchers to contribute original research articles and review articles that will stimulate more studies in bioenergy production from biomass via fermentation. We are particularly interested in articles describing the use of fermentative technologies for energy recovery from biomass, different fermentation methods and their biotechnological application, and so forth. Potential topics include, but are not limited to, the following:

- Photo fermentation;
- Electrofermentation:
- Dark fermentation;
- Integrated fermentation;
- Liquid biofuels production;
- Biogas/biohydrogen production and purification;
- The lifecycle analysis of bioenergy production;
- Metabolic engineering;
- The economical evaluation of bioenergy production.

### **Guest Editor**

Dr. Lei Zhao

School of Environment, Harbin Institute of Technology, Harbin, China

### Deadline for manuscript submissions

31 December 2025



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

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### 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**

Prof. Dr. Christian Kennes

Department of Chemical Engineering, Faculty of Sciences, University of La Coruña, La Coruña, Spain

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