

## 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 biomass—is 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.

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### Guest Editor

Dr. Lei Zhao

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

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### Deadline for manuscript submissions

31 July 2026



## Fermentation

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CiteScore 5.7



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## About the Journal

### Message from the Editor-in-Chief

Welcome to an open access journal, *Fermentation*, which meets the growing need for a high quality peer-reviewed international journal with easy access to all researchers globally. We hope that you will share our enthusiasm for this 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 journal. Proposals for editing a special issue for a particular topical area are always welcome.

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### 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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