

## Special Issue

# Applied Microorganisms and Industrial/Food Enzymes, 2nd Edition

### Message from the Guest Editor

Microorganisms are widely applied in producing value-added compounds, improving food flavor, maintaining soil fertility, and protecting the environment. They have been successfully applied to produce antibiotics, biofuels, vitamins, and food flavors after genetic modification. With the boom of structural biology and AI technology, it is more feasible to understand the relationship between protein structure and function. Thus, protein engineering has become more reliable in endowing proteins such as industrial/food enzymes with new properties and functions. Therefore, it provides the possibility to design and reconstruct novel synthetic pathways in engineered microbial cell factories. The goal of this Special Issue is to publish both recent innovative research results and review papers on applied microorganisms and industrial/food enzymes. Keywords: applied microorganisms; industrial/food enzymes; fermentation optimization; metabolic engineering; synthetic biology; protein engineering; transcriptional regulation; host cells; protein expression; high throughput screening

### Guest Editor

Prof. Dr. Xian Zhang

School of Biotechnology, Jiangnan University, Wuxi 214122, China

### Deadline for manuscript submissions

30 August 2025



## Fermentation

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.3  
CiteScore 5.7



[mdpi.com/si/215594](https://mdpi.com/si/215594)

*Fermentation*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[fermentation@mdpi.com](mailto:fermentation@mdpi.com)

[mdpi.com/journal/  
fermentation](https://mdpi.com/journal/fermentation)





# Fermentation

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.3  
CiteScore 5.7



[mdpi.com/journal/  
fermentation](https://mdpi.com/journal/fermentation)



## About the Journal

### 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

Dr. Badal C. Saha  
Retired, National Center for Agricultural Utilization Research, USDA-  
ARS, Peoria, IL, USA

---

### Author Benefits

#### High Visibility:

indexed within Scopus, SCIE (Web of Science), PubAg, FSTA, Inspec, CAPus / SciFinder, and other databases.

#### Journal Rank:

JCR - Q2 (Biotechnology and Applied Microbiology) /  
CiteScore - Q1 (Plant Science)

#### Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 15.5 days after submission; acceptance to publication is undertaken in 3.9 days (median values for papers published in this journal in the first half of 2025).