



## Recent Advancements in Methods and Applications of Microbial Fuel Cells

Guest Editors:

**Dr. Mohd Rafatullah**

Division of Environmental  
Technology, School of Industrial  
Technology, Universiti Sains  
Malaysia, George Town 11800,  
Penang, Malaysia

**Dr. Syed Zaghum Abbas**

Biofuels Institute, School of  
Environment and Safety  
Engineering, Jiangsu University,  
Zhenjiang 212013, China

Deadline for manuscript  
submissions:

**closed (30 June 2023)**

### Message from the Guest Editors

Microbial fuel cells (MFCs) are novel devices that could be used for wastewater treatment and power generation simultaneously by using electroactive bacteria. Electroactive bacteria are newly discovered bacteria that engage in extracellular electron transport. Many recent advances in MFCs have resulted in their improved performance. MFCs represent a new and promising research direction for real-time and long-term operation. However, many challenges must be addressed before MFCs' maximum potential can be realized. MFCs could be employed as biosensors in their respective mediums. This Special Issue will focus on recent advancement in MFCs, such as efficient anode materials, technology coupling, innovative applications, optimum designs, pollutant removal and pilot scale-ups.

This Special Issue will publish experimental and review papers as well as short communications discussing recent developments in microbial fuel cells for optimum performance.





an Open Access Journal by MDPI

## Editor-in-Chief

**Prof. Dr. Anthony Guiseppi-Elie**

Department of Biomedical  
Engineering, Texas A&M  
University, College Station, TX  
77843, USA

## Message from the Editor-in-Chief

You are invited to contribute a research article or a comprehensive review for consideration and publication in *Bioengineering* (ISSN 2306-5354). *Bioengineering* is published in open access format – research articles, reviews and other contents are released on the Internet immediately after acceptance. The scientific community and the general public have unlimited and free access to the content as soon as it is published. *Bioengineering* provides an advanced forum for the science and technology of bioengineering. We would be pleased to welcome you as one of our authors.

## Author Benefits

**Open Access:** free for readers, with article processing charges (APC) paid by authors or their institutions.

**High Visibility:** indexed within Scopus, SCIE (Web of Science), PubMed, PMC, CAPlus / SciFinder, Inspec, and other databases.

**Journal Rank:** JCR - Q2 (*Engineering, Biomedical*)

**Rapid Publication:** manuscripts are peer-reviewed and a first decision is provided to authors approximately 15.6 days after submission; acceptance to publication is undertaken in 3.1 days (median values for papers published in this journal in the first half of 2024).

## Contact Us

*Bioengineering* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/bioengineering](http://mdpi.com/journal/bioengineering)  
[bioengineering@mdpi.com](mailto:bioengineering@mdpi.com)  
X@Bioeng\_MDPI