

Special Issue

Biocatalysts Advancement for Optimum Performance in Microbial Fuel Cells and Their Sub-types

Message from the Guest Editors

Microbial fuel cells are novel devices that could be used for wastewater treatment and power generations simultaneously using electrochemically active bacteria as biocatalysts. The subtypes of MFCs, such as sediment MFCs, soil MFCs, sludge MFCs, and benthic MFCs, have attracted the attention of many researchers recently due to different electron transfer pathways in the solid medium rather than aquatic medium of MFCs. Many challenges in the subtypes of MFCs are addressed to obtain maximum performance. These subtypes could be employed as biosensors in their respective mediums. This Special Issue will focus on recent advancements in MFCs and their subtypes, such as efficient anode materials, coupling with other technologies, innovative applications, optimum designs, pollutant removal, and pilot scale-up. The Special Issue will publish experimental and review papers, as well as short communications, discussing recent developments in microbial fuel cells and their subtypes for optimum performance.

Guest Editors

Dr. Mohd Rafatullah

Dr. Yang-Chun Yong

Dr. Syed Zaghum Abbas

Deadline for manuscript submissions

closed (30 June 2023)



Catalysts

an Open Access Journal
by MDPI

Impact Factor 4.0
CiteScore 7.6



mdpi.com/si/97878

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

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





Catalysts

an Open Access Journal
by MDPI

Impact Factor 4.0
CiteScore 7.6



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



About the Journal

Message from the Editor-in-Chief

Editor-in-Chief

Prof. Dr. Keith Hohn

Carl R. Ice College of Engineering, Kansas State University, Manhattan,
KS, USA

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), Inspec, Ei Compendex, CAPlus / SciFinder, CAB Abstracts, and other databases.

Journal Rank:

JCR - Q2 (Chemistry, Physical) / CiteScore - Q1 (General Environmental Science)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.6 days after submission; acceptance to publication is undertaken in 2.7 days (median values for papers published in this journal in the first half of 2025).