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Microbial Fuel Cell

Guest Editor:

Prof. Dr. Seokheun Choi
Department of Electrical & Computer Engineering, State University of New York at Binghamton, Binghamton, NY 13902, USA

Deadline for manuscript submissions:
closed (28 February 2022)

Message from the Guest Editor

Dear Colleagues,

The next generation of sustainable energy could come from microorganisms; evidence of this has given rise to electromicrobiology, the study of microorganisms' electrical properties. Many recent advances in electromicrobiology stem from studying microbial fuel cells (MFCs), which are gaining acceptance as a future alternative "green" energy technology and energy-efficient wastewater treatment methods. MFCs are powered by live microorganisms with clean and sustainable features; they efficiently catalyze degradation for a broad range of organic substrates under natural conditions. Despite their vast potential, our ability to harness the potential of MFC technology lags from a lack of in-depth understanding of the mechanisms that achieve electron harvesting from microorganisms, and fundamental factors that maximize MFCs' power-generating capabilities. These gaps relegate MFCs to a laboratory curiosity...

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Prof. Dr. Karim Zaghib
Department of Chemical and Materials Engineering, Concordia University, Montréal, QC H3G 1M8, Canada

Message from the Editor-in-Chief

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Journal Rank: JCR - Q2 (Electrochemistry) / CiteScore - Q1 (Electrical and Electronic Engineering)

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Batteries Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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