Special Issue

Development and Applications of Bioelectrochemical Systems

Message from the Guest Editors

This Special Issue aims to present up-to-date information on the recent scientific advances in the fundamental and diverse applications of BES. Authors are invited to submit papers relating to, but not limited to, the following topics: electroactive microorganisms, mechanisms of direct/indirect interspecies electron transfer, the bioelectrochemical reaction (redox potential shift, thermodynamics, and kinetics), electrodes (materials, catalysts, shapes, and arrangements), electrode potential and electrostatic field, BES platforms (MFCs, MDCs, MECs, and other new platforms), modeling and optimization of BES, applications of BES (methane and hydrogen production, biogas upgrading, nitrogen removal, tertiary treatment of wastewater, etc.), and BES design and operation.

Kewords:

- electroactive microorganisms
- direct interspecies electron transfer
- bioelectrochemical reaction
- electrode materials and catalyst
- BES platforms
- microbial electrosynthesis
- modeling and optimization of the BES platform
- applications of BES
- design and operation of BES platforms

Guest Editors Prof. Dr. Young-Chae Song

Prof. Dr. Younggy Kim

Prof. Dr. Yongtae Ahn

Deadline for manuscript submissions

closed (31 December 2020)



Processes

an Open Access Journal by MDPI

Impact Factor 2.8 CiteScore 5.5



mdpi.com/si/30247

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

mdpi.com/journal/

processes





Processes

an Open Access Journal by MDPI

Impact Factor 2.8 CiteScore 5.5



processes



About the Journal

Message from the Editor-in-Chief

You are invited to contribute either a research article or a comprehensive review for consideration and publication in *Processes* (ISSN 2227-9717). *Processes* is published in open access format – research articles, reviews, and other content are released on the internet immediately after acceptance. The scientific community and the general public have unlimited, free access to the content. As an open access journal, *Processes* is supported by the authors and their institutes through the payment of article processing charges (APCs) for accepted papers. We would be pleased to welcome you as one of our authors.

Editor-in-Chief

Prof. Dr. Giancarlo Cravotto

Department of Drug Science and Technology, University of Turin, Via P. Giuria 9, 10125 Turin, Italy

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), Ei Compendex, Inspec, AGRIS, and other databases.

Journal Rank: CiteScore - Q2 (Chemical Engineering (miscellaneous))