



Application of Exoelectrogens Polymer in Environmental Treatment

Guest Editors:

Dr. Lean Zhou

School of Hydraulic and
Environmental Engineering,
Changsha University of Science &
Technology, Changsha, China

Dr. Junfeng Chen

School of Life Science, Qufu
Normal University, Qufu 273165,
China

Dr. Tian Li

College of Environmental Science
and Engineering, Nankai
University, Tianjin 300350, China

Deadline for manuscript
submissions:

closed (30 August 2023)

Message from the Guest Editors

Exoelectrogens polymer-based microbial electrochemical technologies (METs) using microorganisms, instead of expensive metal catalysts, convert the biodegradable organic compounds into energy and small molecular substances. This promising polymer-based technology has drawn much attention because of their low energy consumption, low sludge production, and resource recovery characteristics.

This Special Issue aims to collect research papers and review articles with original contributions to the development, application, testing, and mechanism analysis of exoelectrogens polymer-based technology, with a special focus on substance transformation and electron transfer in METs. The Special Issue covers, among other topics:

- Rapid biofilm development methods ;
- Exploration of extracellular electron transport in exoelectrogens biofilm polymers ;
- Metabolic mechanism of pollutants in METs;
- Challenges in the development and implementation of METs;
- Application of function materials in exoelectrogens polymer-based technology.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Alexander Böker

Lehrstuhl für Polymermaterialien
und Polymertechnologie,
University of Potsdam, 14476
Potsdam-Golm, Germany

Message from the Editor-in-Chief

Since its foundation in 2009, *Polymers* has developed into an internationally renowned, extremely successful open access journal. The editorial team and the editorial board dedicatedly combine open-access publishing and high-quality rigorous peer reviewing. The performance of the journal has proven this strategy to be well-suited and highly successful. This is reflected in the increasing impact factor of *Polymers*, the most recent one being 5.0.

I would like to invite you to contribute to the success of the journal by sending us your high quality research papers. 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), Ei Compendex, PubMed, PMC, FSTA, CAPlus / SciFinder, Inspec, and other databases.

Journal Rank: JCR - Q1 (Polymer Science) / CiteScore - Q1 (General Chemistry)

Contact Us

Polymers Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/polymers
polymers@mdpi.com
X@Polymers_MDPI