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Microbial Electrochemical Technologies for Resource-Efficient Waste Management

Guest Editor:

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Deadline for manuscript submissions:
closed (31 December 2018)

Message from the Guest Editor

Energy-efficient innovative technologies are essential for wastewater treatment and waste minimization. There is a growing need for resource recovery for sustainable management of natural sources. Among the many solutions, microbial electrochemical systems provide unique opportunities for recovering these valuable sources while contributing environmental protection.

Highlights of the topics included in this special issue are, but not limited to:

1. Wastewater treatment in microbial electrochemical technologies (microbial fuel cells, microbial electrolysis cells, microbial desalination, capacitive deionization, and MXCs)
2. Integrated microbial electrochemical technologies for energy and resource recovery
3. Critical assessment, evaluation and reviews on the future of various bioelectrochemical principles, technologies and applications
4. Non-conventional and industrial wastewater treatment such as oil and gas produced waters
5. Theoretic development and modelling/simulation studies and process optimization
6. Materials, design configurations, scale-up and applications (recovery of valuable chemicals and metals) of MXCs

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Message from the Editor-in-Chief

Environmental issues are quickly becoming central political, economic and academic topics of the twenty-first century. A large number of modern challenges are directly or indirectly caused by complex interactions between environmental issues. Such issues require interdisciplinary research, knowledge and insights to understand and, ultimately, for solutions to be found. Through the journal Environments, we strive to create a platform for meaningful discourse by accepting contributions from a wide range of fields. We sincerely hope you will consider publishing your distinguished work in this highly-accessible, peer-reviewed journal.

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