



Microbial Fuel Cells for Wastewater Treatment and Reuse

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Message from the Guest Editors

With huge volumes of wastewater generated through different industrial activities, the need for new and effective treatment technologies has become a top priority for environmental engineers. Sustainable and energy efficient treatment approaches have gained significant attention. Microbial fuel cell is primarily based on the bioelectrochemical mechanism which involves the utilization of the microorganisms for effective conversion of wastewater substrate into energy. Microbial fuel cells offer dual advantages of wastewater treatment and co-generation of energy. High selectivity and efficiency have provided a competitive edge for microbial fuel cell technology over conventional methods. This Special Issue is designed to collect original research and review articles focusing on microbial fuel cell applications for wastewater treatment and reuse. This Special Issue brings together emerging approaches, challenges, and opportunities related to new developments in microbial fuel cells aiming to enhance treatment efficiency and explore the energy generation potential.





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