

DAFTAR PUSTAKA

- Aghababaie, M., Farhadian, M., Jeihanipour, A., & Biria, D. (2015). Effective factors on the performance of *Microbial Fuel Cells* in wastewater treatment—a review. *Environmental Technology Reviews*, 4(1), 71–89. <https://doi.org/10.1080/09593330.2015.1077896>
- Ahmed, J., & Kim, S. (2024). Polyaniline nanofiber: an excellent anode material for *Microbial Fuel Cells*. *RSC Advances*, 14(46), 34498–34503. <https://doi.org/10.1039/d4ra03774j>
- Albarracin-Arias, J. A., Yu, C. P., Maeda, T., Valdivieso Quintero, W., & Sanchez-Torres, V. (2021). Microbial community dynamics and electricity generation in MFCs inoculated with POME sludges and pure electrogenic culture. *International Journal of Hydrogen Energy*, 46(74), 36903–36916. <https://doi.org/10.1016/j.ijhydene.2021.08.218>
- Ali, M., & Widodo, A. A. (2019). Biokonversi Bahan Organik Pada Limbah Cair Rumah Pemotongan Hewan Menjadi Energi Listrik Menggunakan *Microbial Fuel Cell*. *Jurnal Envirotek*, 11(2), 30–37. <https://doi.org/10.33005/envirotek.v11i2.4>
- Auw, D. N., Hafizah, S., Leki, A. M., Makalbani, A., & Loban, J. M. (2023). Analisis Korelasi Faktor – Faktor Yang Mempengaruhi Tingkat Pendapatan Kepala Keluarga. *Jurnal Ilmiah Matematika Dan Terapan*, 20(2), 165–180. <https://doi.org/10.22487/2540766x.2023.v20.i2.16546>
- Bazina, N., Ahmed, T. G., Almdaaf, M., Jibia, S., & Sarker, M. (2023). Power generation from wastewater using *Microbial Fuel Cells*: A review. *Journal of Biotechnology*, 374(July), 17–30. <https://doi.org/10.1016/j.jbiotec.2023.07.006>
- Behera, M., & Ghangrekar, M. M. (2009). Performance of *Microbial Fuel Cell* in response to change in sludge loading rate at different anodic feed pH. *Bioresource Technology*, 100(21), 5114–5121. <https://doi.org/10.1016/j.biortech.2009.05.020>
- Bird, H., Heidrich, E. S., Leicester, D. D., & Theodosiou, P. (2022). Pilot-scale *Microbial Fuel Cells* (MFCs): A meta-analysis study to inform full-scale

- design principles for optimum wastewater treatment. *Journal of Cleaner Production*, 346, 131227. <https://doi.org/10.1016/j.jclepro.2022.131227>
- Cheng, S. & Logan, B.E. (2007). "Ammonia Treatment of Carbon cloth Anodes to Enhance Power Generation of Microbial Fuel Cells." *Electrochemistry Communications*, 9(3), 492–496.
- Christie E. J. C., M., & Langi, A. R. Y. (2018). Uji Hipotesis Uji T Berpasangan. *Jurnal Matematika Dan Aplikasi*, 7(1), 44–46.
- Das, D. (2017). *Microbial Fuel Cell: A bioelectrochemical system that converts waste to watts. Microbial Fuel Cell: A Bioelectrochemical System That Converts Waste to Watts*, (March), 1–506. <https://doi.org/10.1007/978-3-319-66793-5>
- Eckenfelder, W. W. (2000). *industrial water pollution control* (3rd ed., Vol. 3). McGraw-Hill.
- Elangovan, K., Saravanan, P., Campos, C. H., Sanhueza-Gómez, F., Khan, M. M. R., Chin, S. Y., Krishnan, S., & Viswanathan Mangalaraja, R. (2023). Outline of *Microbial Fuel Cells* technology and their significant developments, challenges, and prospects of oxygen reduction electrocatalysts. *Frontiers in Chemical Engineering*, 5(September), 1–27. <https://doi.org/10.3389/fceng.2023.1228510>
- Fasha, M. A., Kirom, M. R., & Fitriyanti, N. (2023). Analisis Pengaruh Ketebalan Proton Exchange Membrane berongga pada *Microbial Fuel Cell* Dual Chamber Terhadap hasil Produksi Energi Listrik. *E-Proceeding of Engineering*, 10(1).
- Gajda, I., Obata, O., Salar-Garcia, M. J., Greenman, J., & Ieropoulos, I. A. (2020). Long-term bio-power of ceramic *Microbial Fuel Cells* in individual and stacked configurations. *Bioelectrochemistry*, 133, 107459. <https://doi.org/10.1016/j.bioelechem.2020.107459>
- Hartono, D. R. (2023). Monitoring Daya Listrik Berbasis Internet of Things Menggunakan Metode Simple Exponential Smoothing untuk Prediksi Kebutuhan Energi. *Cyclotron*, 6(2), 59–67. <https://doi.org/10.30651/cl.v6i2.17948>

- Hartono, R. S. (2020). *Rancang Bangun Sistem Pembangkit Listrik Menggunakan Konsep Agar Salt Bridge Berbasis Microbial Fuel Cell dalam Memanfaatkan Limbah Cair Rumah Potong Hewan* [Skripsi, Universitas Brawijaya].
- Ibrahim, B., Hardiningtyas, S. D., & Steffen. (2022). The Performance of Salt Bridge *Microbial Fuel Cell* Bioelectric Generator in Variated Carrageenan-Carboxymethyl Cellulose Ratio. *Jurnal Pengolahan Hasil Perikanan Indonesia*, 25(2), 214–225. <https://doi.org/10.17844/jphpi.v25i2.39872>
- Islam, M. A., Karim, A., Woon, C. W., Ethiraj, B., Cheng, C. K., Yousuf, A., & Rahman Khan, M. M. (2017). Augmentation of air cathode *Microbial Fuel Cell* performance using wild type *Klebsiella variicola*. *RSC Advances*, 7(8), 4798–4805. <https://doi.org/10.1039/c6ra24835g>
- Itoshiro, R., Yoshida, N., Yagi, T., Kakihana, Y., & Higa, M. (2022). *Effect of ion selectivity on current production in sewage Microbial Fuel Cell separators. Membranes*, 12(2), 183. <https://doi.org/10.3390/membranes12020183>
- Jinisha, R., Jerlin Regin, J., & Maheswaran, J. (2020). A review on the emergence of single-chamber *Microbial Fuel Cell* on wastewater treatment. *IOP Conference Series: Materials Science and Engineering*, 983(1). <https://doi.org/10.1088/1757-899X/983/1/012002>
- Kartika, R. W. A., Desman, N. S., & Prijambada, I. D. (2022). Peruraian Anaerobik Termofilik *Palm Oil Mill Effluent* dengan Variasi Konsentrasi Substrat. *Jurnal Rekayasa Proses*, 16(1), 25. <https://doi.org/10.22146/jrekpros.69574>
- Logan, B. E., Rossi, R., Ragab, A., & Saikaly, P. E. (2019). Electroactive microorganisms in bioelectrochemical systems. *Nature Reviews Microbiology*, 17(5), 307–319. <https://doi.org/10.1038/s41579-019-0173-x>
- Mohd Yusof, M. A. Bin, Chan, Y. J., Chong, C. H., & Chew, C. L. (2023). Effects of operational processes and equipment in palm oil mills on characteristics of raw *Palm Oil Mill Effluent* (POME): A comparative study of four mills. *Cleaner Waste Systems*, 5(September 2022), 100101. <https://doi.org/10.1016/j.clwas.2023.100101>
- Muftiana, I., Suyati, L., & Setiyo, D. (2018). *Pengaruh Variasi Konsentrasi Glukosa dan Ammonium Klorida terhadap Produksi Etanol oleh Saccharomyces cerevisiae*. 21(1), 49–53.

- Mukimin, A., Zen, N., Vistanty, H., & Purwanto, A. (2020). *High Electric Production by Membraneless Microbial Fuel Cell with Up Flow Operation using Acetate Wastewater. Jurnal Riset Teknologi Pencegahan Pencemaran Industri*, 11(2), 19–27.
- Permana, D., Putra, H. E., Rohman, O., Ependi, M., & Djaenudin. (2024). Performance of salt-bridge *Microbial Fuel Cell* (SB-MFC) with various microorganism cultures on the generation of electricity from tofu wastewater. *Indonesian Journal of Biotechnology*, 29(2), 48–55. <https://doi.org/10.22146/ijbiotech.80928>
- Pourhosseini, P. S., Giyahchi, M., Danaee, S., & Moghimi, H. (2026). Using dual chamber *Microbial Fuel Cells* for coupled microplastic biodegradation and bioelectricity production: assessing the effect of substrate. *Microbial Cell Factories*, 25(1). <https://doi.org/10.1186/s12934-026-02925-y>
- Santoro, C., Arbizzani, C., Erable, B., & Ieropoulos, I. (2017). Microbial fuel cells: From fundamentals to applications. A review. *Journal of Power Sources*, 356, 225–244. <https://doi.org/10.1016/j.jpowsour.2017.07.109>
- Saputra, R. A., Sulistiyono, E., & Mulyadi. (2018). *Penentuan Rasio Optimum C : N : P Sebagai Nutrisi Pada Proses Biodegradasi Benzena-Toluena Dan Scale Up Kolom Bioreg ... 2018*.
- Rahimnejad, M., Adhami, A., Darvari, S., Zirepour, A., & Oh, S. E. (2015). *Microbial Fuel Cell* as new technology for bioelectricity generation: A review. *Alexandria Engineering Journal*, 54(3), 745–756. <https://doi.org/10.1016/j.aej.2015.03.031>
- Rahmah, N., Kirom, M. R., & Riu, A. (2020). Analisis Pengaruh Panjang Jembatan Garam Terhadap Produksi Listrik Pada Dual Chambar MFC. *E-Proceeding of Engineering*, 7(3), 9247–9254.
- Rane, N. V., Kumari, A., Holkar, C., Pinjari, D. V., & Pandit, A. B. (2018). *Microbial Fuel Cell* Technology for Wastewater Treatment. In *Sustainable Water Treatment: Advances and Technological Interventions* (Number July). <https://doi.org/10.1002/9781119480075.ch7>
- Rasep, Z., Aripin, N. S. M., Ghazali, M. S. M., Yahya, N., Arida, A. S., Som, A. M., & Mustaza, M. F. (2016). *Microbial Fuel Cell* for conversion of chemical

- energy to electrical energy from food industry wastewater. *Journal of Environmental Science and Technology*, 9(6), 481–485.
<https://doi.org/10.3923/jest.2016.481.485>
- Sagala, D., Frimawaty, E., & Sodri, A. (2023). Potensi Energi Terbarukan dari Pemanfaatan Energi Biogas POME (*Palm Oil Mill Effluent*) sebagai Sumber Energi Terbarukan di Provinsi Jambi. *Jurnal Ilmu Lingkungan*, 22(1), 205–214. <https://doi.org/10.14710/jil.22.1.205-214>
- Sahaq, A. B., & Hadiyanto. (2019). Bioelectricity production from Tofu wastewater using microbial-microalgae fuel cell technology (MMFC). *AIP Conference Proceedings*, 2202(May). <https://doi.org/10.1063/1.5141684>
- Stefany, C. (2023). Pemanfaatan Activated Carbon dalam Meningkatkan Fungsi Koagulan untuk Pengolahan POME (*Palm Oil Mill Effluent*). *Journal of Environmental Management and Technology*, 2(2), 64–74.
<https://doi.org/10.31258/jptl.2.2.64-74>
- Tarigan, K., Sitanggang, Y., & Hasibuan, F. A. Y. (2025). Reduksi Cod Pada *Palm Oil Mill Effluent* (Pome) Dengan Menggunakan Arang Aktif Dari Biomassa Kelapa Sawit. *Jurnal Teknologi Kimia Mineral*, 4(1), 71–78.
<https://doi.org/10.61844/jtkm.v4i1.1106>
- Yaqoob, A. A., Ibrahim, M. N. M., Rafatullah, M., Chua, Y. S., Ahmad, A., & Umar, K. (2020). Recent advances in anodes for *Microbial Fuel Cells*: An overview. *Materials*, 13(9), 1–27. <https://doi.org/10.3390/ma13092078>
- Yogaswara, R. R., Farha, A. S., Dian, M., & Gunawan, A. (2017). Study of Addition Microorganisms on POME Waste Substrate to *Microbial Fuel Cell* Performance. *Jurnal Teknik Kimia*, 12(1), 14–18.
- Yudono, B., Ulfariani, S., Fatma, F., Parwiyanti, P., & Lidiasari, E. (2022). POME Processing with Bioremediation Using Indigenous Bacteria (*Bacillus toyonensis* and *Stenotrophomonas rhizophila*), Electrocoagulation, and Bioremediation assisted with Electrocoagulation Methods. *Indonesian Journal of Fundamental and Applied Chemistry*, 7(3), 122–135.
<https://doi.org/10.24845/ijfac.v7.i3.122>

- Zhao, Y., Ma, Y., Li, T., Dong, Z., & Wang, Y. (2018). Modification of *carbon felt* anodes using double-oxidant HNO₃/H₂O₂ for application in *Microbial Fuel Cells*. *RSC Advances*, 8(4), 2059–2064. <https://doi.org/10.1039/c7ra12923h>
- Zulkifli, A. (2016). Analisis Kelayakan Potensi Pembangunan PLTBg POME Di Wilayah Perkebunan Sawit. *Jurnal PASTI*, 10(2), 192–207.

