

- Alexander, C. K., & Sadiku, M. N. O. (2013). *Fundamentals of electric circuits (5th ed.)*. McGraw-Hill.
- Arun, S., Sinharoy, A., Pakshirajan, K., & Lens, P. N. L. (2020). Algae based microbial fuel cells for wastewater treatment and recovery of value-added products. *Renewable and Sustainable Energy Reviews*, 132, 110041.
- Baek, G., & Lee, J. (2024). Algae-derived electrodes in bioelectrochemical systems. *Journal of Environmental Chemical Engineering*, 12(1), 112535.
- Bazdar, E., Roshandel, R., Yaghmaei, S., & Mardanpour, M. M. (2018). The effect of different light intensities and light/dark regimes on the performance of photosynthetic microalgae microbial fuel cell. *Bioresource Technology*, 261, 350-360. <https://doi.org/10.1016/j.biortech.2018.04.026>
- Bhaduri, S., & Behera, M. (2024). From single-chamber to multi-anodic microbial fuel cells: A review. *Journal of Environmental Management*, 355, 120465.
- Boinpally, S., Kolla, A., Kainthola, J., Kodali, R., & Vemuri, J. (2023). A state-of-the-art review of the electrocoagulation technology for wastewater treatment. *Water Cycle*, 4, 26–36.
- Chang, H.-C., Gustave, W., Yuan, Z.-F., Xiao, Y., & Chen, Z. (2020). One-step fabrication of binder-free air cathode for microbial fuel cells by using balsa wood biochar. *Environmental Technology & Innovation*, 18, 100615.
- Chen, C. X., Koskue, V., Duan, H., Gao, L., Shon, H. K., Martin, G. J. O., Chen, G. Q., & Freguia, S. (2024). Impact of nutrient deficiency on biological sewage treatment - Perspectives towards urine source segregation. *Science of the Total Environment*, 946, 174174.
- Christgen, B., Spurr, M., Milner, E. M., Izadi, P., McCann, C., Yu, E., Curtis, T., Scott, K., & Head, I. M. (2023). Does pre-enrichment of anodes with acetate to select for *Geobacter* sp. enhance performance of microbial fuel cells when switched to more complex substrates. *Frontiers in Microbiology*, 14, 1199286.

Dube, A., Malode, S. J., Alshehri, M. A., & Shetti, N. P. (2025). Electrochemical water treatment: Review of different approaches. *Journal of Environmental Management*, 373, 123911.

Gajda, I., Greenman, J., Melhuish, C., & Ieropoulos, I. (2015). Self-sustainable electricity production from algae grown in a microbial fuel cell system. *Biomass and Bioenergy*, 82, 87–93.

Huggins, T., Wang, H., Kearns, J., Jenkins, P., & Ren, Z. J. (2014). Biochar as a sustainable electrode material for electricity production in microbial fuel cells. *Bioresource Technology*, 157, 114–119.

Jacob-Lopes, E., Maroneze, M. M., Queiroz, M. I., & Zepka, L. Q. (Eds.). (2020). *Handbook of microalgae-based processes and products: Fundamentals and advances in energy, food, feed, fertilizer, and bioactive compounds*. Elsevier.

Josks, P. H., Tadwalkar, A. D., & Hsu, C. L. (1987). Enhanced uptake of phosphorus by activated sludge Effect of substrate addition. *Water Research*, 21(3), 301-308.

Kannan, N., & Donnellan, P. (2021). Algae-assisted microbial fuel cells: A practical overview. *Bioresource Technology Reports*, 15, 100747.

Khandelwal, A., Dhindhoria, K., Dixit, A., & Chhabra, M. (2021). Superiority of activated graphite/CuO composite electrode over Platinum based electrodes as cathode in algae assisted microbial fuel cell. *Environmental Technology & Innovation*, 24, 101891. <https://doi.org/10.1016/j.eti.2021.101891>

Krichen, E., Rapaport, A., Le Floc'h, E., & Fouilland, E. (2021). A new kinetics model to predict the growth of micro-algae subjected to fluctuating availability of light. *Algal Research*, 58, 102362.

Kumar, T., & Jujjavarapu, S. E. (2023). Carbon dioxide sequestration and wastewater treatment via an innovative self-sustaining algal microbial fuel cell. *Journal of Cleaner Production*, 415, 137836. <https://doi.org/10.1016/j.jclepro.2023.137836>

Kumar, A., Sharma, K., Pandit, S., Mathuriya, A. S., & Prasad, R. (2023). Evaluation of the algal-derived biochar as an anode modifier in microbial fuel cells. *Bioresource Technology Reports*, 22, 101414.

Lee, D.-J., Chang, J.-S., & Lai, J.-Y. (2015). Microalgae-microbial fuel cell: A mini review. *Bioresource Technology*, 198, 891–895.

Mekuto, L., Olowolafe, A. V. A., Pandit, S., Dyantyi, N., Nomngongo, P., & Huberts, R. (2020). Microalgae as a biocathode and feedstock in anode chamber for a self-sustainable microbial fuel cell technology: A review. *South African Journal of Chemical Engineering*, 31, 7–16.

Montgomery, D. C. (2013). *Design and Analysis of Experiments (Eight Edit)*

Naha, A., Debroy, R., Sharma, D., Shah, M. P., & Nath, S. (2023). Microbial fuel cell: A state-of-the-art and revolutionizing technology for efficient energy recovery. *Cleaner and Circular Bioeconomy*, 5, 100050.

Nilsson, J. W., & Riedel, S. A. (2020). *Electric circuits (11th ed., Global edition)*. Pearson Education Limited.

Pan, M., Su, Y., Zhu, X., Pan, G., Zhang, Y., & Angelidaki, I. (2021). Bioelectrochemically assisted sustainable conversion of industrial organic wastewater and clean production of microalgal protein. *Resources, Conservation & Recycling*, 168, 105441. <https://doi.org/10.1016/j.resconrec.2021.105441>

Patwardhan, S. B., Pandit, S., Gupta, P. K., Jha, N. K., Rawat, J., Joshi, H. C., Priya, K., Gupta, M., Lahiri, D., Nag, M., Thakur, V. K., & Kesari, K. K. (2022). Recent advances in the application of biochar in microbial electrochemical cells. *Fuel*, 311, 122501.

Pengadeth, D., Naik, S. P., Sasi, A., & Mohanakrishna, G. (2024). Revisiting the role of algal biocathodes in microbial fuel cells for bioremediation and value-addition. *Chemical Engineering Journal*, 496, 154144.

Qin, L., Qin, Y., Cui, N., Han, X., Lu, H., Yang, T., & Liang, W. (2024). Photosynthetic microalgae microbial fuel cells for bioelectricity generation and microalgae lipid recovery using Gd-Co@N-CSs/NF as cathode. *Chemical Engineering Journal*, 490, 151647. <https://doi.org/10.1016/j.cej.2024.151647>

Rahman, M. Z., Edvinsson, T., & Kwong, P. (2020). Biochar for electrochemical applications. *Current Opinion in Green and Sustainable Chemistry*, 23, 25–30.

Riduwan. (2009). *Skala Pengukuran Variabel-variabel Penelitian*. Bandung: Alfabeta.

- I. B. (2021). Developments in electrode materials for wastewater treatment. *Current Opinion in Electrochemistry*, 26, 100663.
- Sangrulkar, P., Gupta, S., & Kandasubramanian, B. (2023). Advancements in biochar-based electrodes for improved performance of microbial fuel cells. *Bioresource Technology Reports*, 24, 101684.
- Shi, J., Huang, W., Wan, N., & Wang, J. (2023). Effects of sodium acetate, glucose, and Chlorella powder as carbon source on enhanced treatment of phenolic compounds and NO₂-N in coal pyrolysis wastewater. *Fuel*, 339, 126974.
- Sonawane, J. M., Mahadevan, R., Pandey, A., & Greener, J. (2022). Recent progress in microbial fuel cells using substrates from diverse sources. *Heliyon*, 8, e12353.
- Song, Y., Cheng, J., Yang, Y., & Gao, Z. (2023). Irradiance penetration distribution and flashing light frequency simultaneously affected with microalgal cell absorption and CO₂ bubble scattering in a raceway pond. *Science of the Total Environment*, 864, 160988.
- Sudiby, H., Pradana, Y. S., Samudra, T. T., Budiman, A., & Suyono, E. A. (2017). Study of cultivation under different colors of light and growth kinetic study of Chlorella zofingiensis Dönn for biofuel production. *Energy Procedia*, 105, 270-276.
- Taskan, B., & Taskan, E. (2022). Sustainable bioelectricity generation using *Cladophora* sp. as a biocathode in membrane-less microbial fuel cell. *Bioresource Technology*, 347, 126704.
- Ullah, Z., & Zeshan. (2024). Effect of catholyte on performance of photosynthetic microbial fuel cell for wastewater treatment and energy recovery. *Renewable Energy*, 221, 119810. <https://doi.org/10.1016/j.renene.2023.119810>
- Vanderman, A. (1998). *Central Composite Design for Response Surface Methodology*. Bogor: Laboratorium Ekologi Hutan Fakultas Kehutanan Institut Pertanian Bogor.
- Venkatesan, J., Manivasagan, P., & Kim, S.-K. (Eds.). (2015). *Handbook of marine microalgae: Biotechnology advances*. Elsevier.

Wang, C.-T., Das, B., & Saladagad, I. A. (2025). Microalgae biocathode coupled polyvinylalcohol proton exchange membrane for performance of recirculation honeycomb microbial fuel cells. *Bioresource Technology Reports*, 29, 102037.

Zhao, S., Wang, X., Wang, Q., Sumpradit, T., Khan, A., Zhou, J., Salama, E.-S., Li, X., & Qu, J. (2023). Application of biochar in microbial fuel cells: Characteristic performances, electron-transfer mechanism, and environmental and economic assessments. *Ecotoxicology and Environmental Safety*, 267, 115643.