

DAFTAR PUSTAKA

- Abdelfattah, A., Hossain, I., & Cheng, L. (2020). High - Strength Wastewater Treatment Using Microbial Biofilm Reactor: a Critical Review. *World Journal of Microbiology and Biotechnology*, 1–10. <https://doi.org/10.1007/s11274-020-02853-y>
- Abdelmohsen, H. M., & Elawwad, A. (2025). Performance and fouling analysis of osmotic microbial fuel cells for simultaneous treatment of real wastewater and desalination of natural seawater. *Desalination and Water Treatment*, 324(August), 101541. <https://doi.org/10.1016/j.dwt.2025.101541>
- Adriansyah, E., Herawati, P., Viareco, H., & Sufra, R. (2023). *Advanced Treatment of Tofu Wastewater using Multilevel Filtration and TiO₂ Photocatalysis as Promising Approach for Effective Wastewater Remediation*. 20(3), 560–571.
- Agustya, I. (2020). *Penggunaan Molase pada Sistem Microbial Fuel Cell (MFC) dengan Variasi Konsentrasi KMnO₄ dan Waktu Reaksi Menggunakan Bantun*.
- Ahmad, D., Haroon, M., Haq, F., Zeb, A., Mahmood, S., & Kiran, M. (2023). *Microbial Fuel Cell , Their Type , Working Principle and Different Factors Affecting Their Performance : A Review*. 4(2), 121–145.
- Alfiyan, M., Wahyuni, I. R., Rosahdi, T. D., & Rozali, I. (2024). *Efisiensi Kombinasi Metode Anaerob dengan Penambahan Koagulan Kapur (CaO) untuk Menurunkan Kadar BOD dan COD pada Limbah Cair Industri Tahu*. 11(1), 45–54.
- 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>
- Amri, A. A., & Widayatno, T. (2023). *Penurunan Kadar BOD, COD, TSS, dan pH pada Limbah Cair Tahu dengan Menggunakan Biofilter*. 6–10.
- Andika, B., Wahyuningsih, P., & Fajri, R. (2020). *Penentuan Nilai BOD dan COD sebagai Parameter Pencemaran Air dan Baku Mutu Air Limbah di*

- Pusat Penelitian Kelapa Sawit (PPKS) Medan. 2(April), 14–22.
- Apriansa, & Irdawati. (2025). *Jurnal Biologi Tropis Optimizing Bioelectricity Production from Thermophilic Bioelectrogens Consortium Using Agricultural Waste in Microbial Fuel Cells*. 25, 1853–1863.
- Ardianingsih. (2025). *Identifikasi Tingkat Biological Oxygen Demand (BOD) sebagai Indikator Kualitas Air di Hulu dan Hilir Sungai Bagong, Banyuwangi*. 8(3), 438–446.
- Ariantoni, A. (2023). *Uji Efektivitas Pengolahan Limbah Cair Tahu Menjadi Energi Biolistrik dengan Metode Microbial Fuel Cell (MFC) Dual Chamber*. Universitas Islam Negeri Ar-Raniry.
- Barajas, D. S. A., Zuniga, G. M. A., Andrade, M. I., Cortes, V. J. M., & Huerta, B. B. E. (2021). Acclimation of Microorganisms for an Efficient Production of Volatile Fatty Acids and Biogas from Mezcal Vinasses in a Dark Fermentation Process. *Water Science and Technology*, 83(11), 2724–2731. <https://doi.org/10.2166/wst.2021.176>
- 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(May), 17–30. <https://doi.org/10.1016/j.jbiotec.2023.07.006>
- Behera, M., & Ghangrekar, M. M. (2009). *Bioresource Technology Performance of microbial fuel cell in response to change in sludge loading rate at different anodic feed pH*. 100, 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*.
- Cahyani, A. P., Febrianti, D. A., & Suprihatin. (2024). Penurunan Kadar BOD, COD, dan TSS dalam Limbah Cair Tahu dengan Metode Aerasi dan Ozonisasi. *Integrasi Proses*, 13(2), 122–126.
- Cai, H., Wang, J., Bu, Y., & Zhong, Q. (2012). *Treatment of carbon cloth anodes for improving power generation in a dual-chamber microbial fuel cell*.

- March. <https://doi.org/10.1002/jctb.3875>
- Cao, Y., Mu, H., Liu, W., Zhang, R., Guo, J., Xian, M., & Liu, H. (2019). Electricigens in the Anode of Microbial Fuel Cells : Pure Cultures Versus Mixed Communities. *Microbial Cell Factories*, 1–14. <https://doi.org/10.1186/s12934-019-1087-z>
- Cruz-noriega, M. D. La, Benites, S. M., Rojas-flores, S., & Otiniano, N. M. (2023). *Use of Wastewater and Electrogenic Bacteria to Generate Eco-Friendly Electricity through Microbial Fuel Cells*.
- Daroini, T. A., & Arisandi, A. (2020). *Analisis BOD (Biological Oxygen Demand) di Perairan Desa Prancak Kecamatan Sepulu , Bangkalan*. 1(4).
- Deng, Q., Li, X., Zuo, J., Ling, A., & Logan, B. E. (2010). *Power Generation Using an Activated Carbon Fiber Felt Cathode in an Upflow Microbial Fuel Cell*. 195, 1130–1135. <https://doi.org/10.1016/j.jpowsour.2009.08.092>
- Dewi, A. K., Djajakirana, G., & Santosa, D. A. (2020). Potensi Limbah Tahu untuk Menghasilkan Listrik pada Tiga Model Sistem Microbial Fuel Cell (MFC). *Jurnal Ilmu Tanah Dan Lingkungan*, 22(1), 29–34. <https://doi.org/10.29244/jitl.22.1.29-34>
- Eckenfelder, W. W. (2000). *Industrial Water Pollution Control*.
- Elystia, S., Hanifa, F., Nasution, M., & Sasmita, A. (2023). Materials Today : Proceedings Rotary Algae Biofilm Reactor (RABR) using microalgae *Chlorella sp .* for tofu wastewater treatment. *Materials Today: Proceedings*, 87, 263–271. <https://doi.org/10.1016/j.matpr.2023.03.206>
- Emerson, R. W. (2023). *Mann-Whitney U test and t -test*. 117(1), 99–100. <https://doi.org/10.1177/0145482X221150592>
- Fahyra, F., Hamdan, A. M., & Lubis, S. S. (2022). *Pengolahan Limbah Cair Tahu dengan Trickling Filter*. 3(2), 44–57.
- Feng, H., Jin, L., Chen, Y., Ji, J., Gong, Z., & Hu, W. (2024). Tofu Wastewater as a Carbon Source Flowing into Municipal Wastewater Treatment Plants for Reductions of Costs and Greenhouse Gas Emissions. *Journal of Environmental Management*, 370(September), 122550. <https://doi.org/10.1016/j.jenvman.2024.122550>
- Foladori, P., Velho, V. F., Costa, R. H. R., Bruni, L., & Quaranta, A. (2015).

- Concerning the Role of Cell Lysis Cryptic Growth in Anaerobic Side-Stream Reactors: The Single Cell Analysis of Viable, Dead and Lysed Bacteria. *Water Research*, 74(2), 132–142. <https://doi.org/10.1016/j.watres.2015.01.042>
- 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>
- Gao, S., Jiang, H., Zhang, Z., Fan, X., Gao, T., & Liu, Y. (2025). Electricity production performance and pH optimization of MFCs using enriched starchdegrading culture. *ISCIENCE*, 28(2), 111869. <https://doi.org/10.1016/j.isci.2025.111869>
- Habibunnisa, Utami, W. T., Fadillah, D. J., Nst, L. P., Villanda, B., & Daulay, R. A. (2023). Proses Pembuatan Tahu Putih Di Desa Sei Bamban Dusun Jurnal Dirosah Islamiyah. *Jurnal Dirosah Islamiyah*, 5(2), 528–534. <https://doi.org/10.17467/jdi.v5i2.3189>
- Hapsari, G. A., Herlambang, S. M., & Arleiny. (2024). *Prototype Monitoring Dan Kontrol Kualitas Nilai Ph Air Pada Kapal*. 3(2).
- Hardyanti, N., Susanto, H., & Budihardjo, M. A. (2024). Removal of organic matter from tofu wastewater using a combination of adsorption, Fenton oxidation, and ultrafiltration membranes. *Desalination and Water Treatment*, 318(February), 100255. <https://doi.org/10.1016/j.dwt.2024.100255>
- Hardyanti, N., Susanto, H., Budihardjo, M. A., & Saputra, A. T. (2023). *Characteristics of Tofu Wastewater From Different Soybeans and Wastewater at Each Stage of Tofu Production*. 24(8), 54–63.
- Hartono, R. S. (2020). *Rancang Bangun Sistem Pembangkit Listrik Menggunakan Konsep Agar Saalt Bridge Berbasis Microbial Fuel Cell dalam Memanfaatkan Limbah Cair Rumah Potong Hewan*. Universitas Brawijaya.
- Hermansyah, M. H., Putri, Y. P., Setiawan, A. A., Eddy, S., & Saputra, W. (2024). *Uji Padatan Tersuspensi Total (TSS) pada Sampel Air Limbah Sawit Secara Gravimetri*. 05, 27–33.
- Hermayanti, A., & Nugraha, I. (2014). *Potensi perolehan energi listrik dari*

limbah cair industri tahu dengan metode salt bridge microbial fuel cell. 3(2), 162–168.

Hossain, N., Islam, S., Rahman, K., & Talukder, J. (2025). Sustainable Chemistry for Climate Action Microbial fuel cells : Bright sparks and lingering shadows - a comprehensive review. *Sustainable Chemistry for Climate Action*, 7(September), 100156. <https://doi.org/10.1016/j.scca.2025.100156>

Ibrahim, B., Suptijah, P., & Adjani, Z. N. (2017). *Kinerja Microbial Fuel Cell Penghasil Biolistrik dengan Perbedaan Jenis Elektroda pada Limbah Cair Industri Perikanan*. 20.

Ismanto, S. D., & Rahayu, L. (2025). *Penerapan Produksi Bersih pada Industri Tahu di Kota Padang*. 2(1).

Itoshiro, R., Yoshida, N., Yagi, T., Kakihana, Y., & Higa, M. (2022). *Effect of Ion Selectivity on Current Production in Sewage Microbial Fuel Cell Separators*.

Jinisha, R., Regin, J. J., & Maheswaran, J. (2020). *A Review on the Emergence of Single-Chamber Microbial Fuel Cell on Wastewater Treatment*. <https://doi.org/10.1088/1757-899X/983/1/012002>

Jiyah, Sudarsono, B., & Sukmono, A. (2016). *Jurnal Geodesi Undip Januari 2017*. 6, 41–47.

Kanani, B., Zahedi, A., Abtahi, F., & Abedi, S. (2025). Electrochemistry Communications Exploring operational barriers in microbial fuel cells: Enhancing energy recovery from wastewater. *Electrochemistry Communications*, 180(April), 108051. <https://doi.org/10.1016/j.elecom.2025.108051>

Karamzadeh, M., Kadivar, H., Kadivar, M., & Kazemi, A. (2020). Modeling the influence of substrate concentration , anode electrode surface area and external resistance in a start-up on the performance of microbial fuel cell. *Bioresource Technology Reports*, 12(September), 100559. <https://doi.org/10.1016/j.biteb.2020.100559>

Kim, D., Lee, D., & Kim, M. (2011). Enhanced Biohydrogen Production From Tofu Residue by Acid / Base Pretreatment and Sewage Sludge Addition. *International Journal of Hydrogen Energy*, 36(21), 13922–13927. <https://doi.org/10.1016/j.ijhydene.2011.03.085>

- Kurniawan, S. B., Imron, M. F., Mustofa, R. R., Najiya, D., Said, N. S. M., Buhari, J., Jusoh, H. H. W., & Ismail, A. (2025). Phytotreatment of tofu effluent using water lettuce (*Pistia stratiotes*) and potential of biogas production from resultant biomass. *Journal of Water Process Engineering*, 69(November 2024), 106672. <https://doi.org/10.1016/j.jwpe.2024.106672>
- Leon, M. I., Castaneda, L. F., & Marquez, A. A. (2022). *Review - Carbon Cloth as a Versatile Electrode : Manufacture , Properties , Reaction Environment and Applications*. 1–93.
- Li, L., Peng, X., Wang, X., & Wu, D. (2018). *Bioresource Technology Anaerobic Digestion of Food Waste : A Review Focusing on Process Stability*. 248(174), 20–28. <https://doi.org/10.1016/j.biortech.2017.07.012>
- Liu, H., Zhang, Y., Zhou, Y., Chen, Z., & Lichtfouse, E. (2020). Journal of Water Process Engineering Self-provided microbial electricity enhanced wastewater treatment using carbon felt anode coated with amino-functionalized Fe_3O_4 . *Journal of Water Process Engineering*, 38(July), 101649. <https://doi.org/10.1016/j.jwpe.2020.101649>
- Logan, B. E. (2009). *Exoelectrogenic Bacteria that Power Microbial Fuel Cells*.
- Logan, B. E., Hamelers, B., Rozendal, R., Schröder, U., Keller, J., Freguia, S., Aelterman, P., Verstraete, W., & Rabaey, K. (2006). Microbial fuel cells: Methodology and technology. *Environmental Science and Technology*, 40(17), 5181–5192. <https://doi.org/10.1021/es0605016>
- Logan, B. E., & Rabaey, K. (2014). *Conversion of Wastes into Bioelectricity and Chemicals by Using Microbial Electrochemical Technologies*. 686(2012). <https://doi.org/10.1126/science.1217412>
- Lu, N., Li, L., Wang, C., Wang, Z., Wang, Y., Yan, Y., Qu, J., & Guan, J. (2021). *Science of the Total Environment Simultaneous Enhancement of Power Generation and Chlorophenol Degradation in Nonmodified microbial fuel Cells Using an Electroactive Biofilm Carbon Felt Anode*. 783, 1–11. <https://doi.org/10.1016/j.scitotenv.2021.147045>
- Magdalena, R., & Krisanti, M. A. (2019). *Analisis Penyebab dan Solusi Rekonsiliasi Finished Goods Menggunakan Hipotesis Statistik dengan Metode Pengujian Independent Sampel T-Test di PT.Merck, Tbk*. 16(April),

35–48.

- Maukar, A. L., Runtuk, J. K., & Andira. (2019). *Perancangan Alat Produksi Tahu yang Higienis pada Industri Rumah Tangga*. 3(1), 31–42.
- Menteri Lingkungan Hidup, P. (2014). *BERITA NEGARA*. 1815.
- Merga, T., Gebreslassie, G., Hailu, T., Nwanya, A. C. N., Ezema, F. I., Ejikeme, P. M., & Workneh, G. A. (2025). Progress of Carbon-Based Electrodes in Microbial Fuel Cells : A Comprehensive Review. *Results in Chemistry*, 17(June), 102627. <https://doi.org/10.1016/j.rechem.2025.102627>
- Min, B., Cheng, S., & Logan, B. E. (2005). *Electricity Generation Using Membrane and Salt Bridge Microbial Fuel Cells*. 39, 1675–1686. <https://doi.org/10.1016/j.watres.2005.02.002>
- Nasution, L. M. (2017). *Statistik Deskriptif*. 14(1), 49–55.
- Norbertine, M., Douma, K., Ondel, O., Tsafack, P., Meyeveville, F., & Ad, N. (2025). *Bioresource Technology Reports Microbial fuel cell : Investigation of the electrical power production of cow dung and human faeces using 3D-printed reactors*. 29(July 2024), 1–11. <https://doi.org/10.1016/j.biteb.2025.102036>
- Novalia, W. I. (2018). *Optimasi Kinerja Elektroda dalam Microbial Fuel Cell pada Substrat Tanah dan Sampah*.
- Ojha, R., Dash, J., Satpathy, S. S., Ojha, P. C., & Pradhan, D. (2025). *A Brief Review on Factors Affecting the Performance of Microbial Fuel Cell and Integration of Artificial Intelligence*.
- Pagoray, H., Sulistyawati, S., & Fitriyani, F. (2021). Limbah Cair Industri Tahu dan Dampaknya Terhadap Kualitas Air dan Biota Perairan. *Jurnal Pertanian Terpadu*, 9(1), 53–65. <https://doi.org/10.36084/jpt.v9i1.312>
- Paucar, N. E., & Sato, C. (2021). *Microbial Fuel Cell for Energy Production , Nutrient Removal and Recovery from Wastewater : A Review*.
- Pinontoan, M. P., Paulus, J. J. H., Wullur, S., Rompas, R. M., Ginting, E. L., & Pelle, W. E. (2023). *Oksigen Terlarut dan pH di Air Sisipan Sedimen Mangrove dan Pesisir di Desa Bulutui Kecamatan Likupang Barat (Dissolved Oxygen and pH of Mangrove and Coastal Sediment Prepared Water in Bulutui Village , West Likupang District)*. 11(1), 132–138.

- Poureshghi, F., Calay, R. K., & Das, S. (2023). Results in Chemistry Enhanced performance of microbial fuel cells using electrochemically treated carbon felt anode. *Results in Chemistry*, 6(November), 101203. <https://doi.org/10.1016/j.rechem.2023.101203>
- Purwono, Hermawan, & Hadiyanto. (2015). Dalam Pengolahan Limbah Cair Industri Tahu Untuk. *Jurnal Presipitasi*, 12(2), 57–65.
- Putri, A. D., Ahman, A., Hilmia, R. S., Almaliyah, S., & Permana, S. (2023). Pengaplikasian Uji T dalam Penelitian Eksperimen. *Jurnal Lebesgue : Jurnal Ilmiah Pendidikan Matematika, Matematika Dan Statistika*, 4(3), 1978–1987. <https://doi.org/10.46306/lb.v4i3.527>
- Putri, A. R. (2024). *Aplikasi Eco-Enzyme Sebagai Rekayasa Teknologi Berkelanjutan dalam Pengolahan Air Limbah Industri di Yogyakarta*.
- Putri, & Kartohardjono. (2018). *Combination of Coagulation-flocculation and Ultrafiltration Processes using Cellulose Acetate Membrane for Wastewater Treatment of Tofu Industry*. 04005.
- Ramadhan, A. (2023). Proses Pembuatan Tahu di Pabrik Tahu Desa Dadimulyo serta Dampak Pandemi Covid-19 terhadap Produksi Tahu. *Jurnal Pengabdian Kepada Masyarakat Indonesia*, 4(2), 135–145. <http://dx.doi.org/10.36596/jpkmi.v4i2.472>
- Ramadhani, M. I., & Mursadin, A. (2020). *Pengaruh Variasi Elektroda Tembaga dan Seng terhadap Produktivitas Listrik Microbial Fuel Cell (MFC) pada Substrat Limbah Cair Air Rebusan Mie Instan*. 5(1), 23–36. <https://doi.org/10.20527/sjmekinematika.v5i1.135>
- Ratna, R., Mutia, M., Darwin, D., Munawar, A. A., Fitriani, F., & Handayani, L. (2024). Utilization of tofu liquid waste for the manufacture of bioplastic food packaging. *Case Studies in Chemical and Environmental Engineering*, 10(July), 100830. <https://doi.org/10.1016/j.cscee.2024.100830>
- Ren, H., Jiang, C., & Chae, J. (2017). Effect of temperature on a miniaturized microbial fuel cell (MFC). *Micro and Nano Systems Letters*, 3–9. <https://doi.org/10.1186/s40486-017-0048-8>
- Reza, M., Qazani, C., Ghasemi, M., & Asadi, H. (2026). Optimising the power regeneration and chemical oxygen demand removal in microbial fuel cell

- systems using integrated soft computing methods and multiple-objective optimisation. *Renewable Energy*, 256(PD), 124188. <https://doi.org/10.1016/j.renene.2025.124188>
- Sahaq, A. B., & Hadiyanto. (2019). *Bioelectricity production from Tofu wastewater using microbial-microalgae fuel cell technology (MMFC). 020071(June).*
- Said, N. I. (2005). *Pengolahan Air Limbah dengan Sistem Reaktor Biologis Putar (Rotating Biological Contactor) dan Parameter Disain. 1(2), 178–188.*
- 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.2017.03.109>
- Saravanan, N., & Karthikeyan, M. (2018). Study of Single Chamber and Double Chamber Efficiency and Losses of Wastewater Treatment. *International Research Journal of Engineering and Technology*, 5(3), 1225–1230.
- Sari, A. P., Hasanah, S., & Nursalman, M. (2024). *Uji Normalitas dan Homogenitas dalam Analisis Statistik. 8(2012), 51329–51337.*
- Sari, T. N. (2018). *Validasi Metode Uji pada Penentuan Kadar Logam Cu (Tembaga) dalam Rokok Kretek Menggunakan Metode Spektrofotometri Serapan Atom.*
- Sasaki, D., Sasaki, K., Tsuge, Y., & Kondo, A. (2016). Comparative Metabolic State of Microflora on the Surface of the Anode Electrode in a Microbial Fuel Cell Operated at Different pH Conditions. *AMB Express*. <https://doi.org/10.1186/s13568-016-0299-4>
- Satar, I., & Permadani, A. (2020). *Treating The Tofu Wastewater (TWW) using a Green Technology of Microbial Fuel Cell (MFC) System.*
- Sattler, M. (2020). *Anaerobic Processes for Waste Treatment and Energy Generation.*
- Septriani, S., Prayogo, N. A., Sahri, A., & Brown, C. L. (2021). *Efficiency of suspended solid removal from tofu production using Rotating Biological Contractor (RBC). 01034.*
- Seroja, R., Effendi, H., & Hariyadi, S. (2018). *Tofu Wastewater Treatment Using Vetiver Grass (Vetiveria zizanioides) and Zeliac.*

- Setyaningrum, D., Anisa, Z., & Rasydta, H. P. (2022). *Pengujian Kadar Chemical Oxygen Demand (COD) pada Air Limbah Tinggi Kalsium Klorida Menggunakan Metode Refluks Terbuka Determination of Chemical Oxygen Demand (COD) in Wasting Water Samples with High Calsium Chloride Using Open Reflux Method*. 1(4), 353–362.
- Shalindry, R. O., Rochmadi, & Budhijanto, W. (2015). *Penguraian Limbah Organik secara Aerobik dengan Aerasi Menggunakan Microbubble Generator dalam Kolam dengan Imobilisasi Bakteri*. 9(2), 58–64.
- Sholihah, A., Masrida, R., & Kartika, W. (2025). *Perencanaan Desain Instalasi Pengolahan Air Limbah (IPAL) Industri Tahu di Kecamatan Tambun Selatan Kabupaten Bekasi*. x, 1–10.
- Sikora, A., Detman, A., Sikora, A., & Detman, A. (2017). *Anaerobic Digestion : I . A Common Process Ensuring Energy of Matter Ecosystems . Energy Flow Flow and and the the Circulation Circulation of Matter II . A Tool for II . the of Gaseous Biofuels A Production Tool for the Production of Gaseous Biofuels*.
- Silalahi, F. T. N., Halimatuddahlia, & Husin, A. (2018). *Tofu Liquid Waste Treatment Using Anaerob Batch Bioreactor One*. 7(1), 34–40.
- Sjafruddin, R., & Agustang, A. (2022). *Estimasi Limbah Industri Tahu Dan Kajian Penerapan Sistem Produksi Bersih*. 8(2), 1229–1237.
- Song, Q., LuYang, W., & ChangYuan, Y. (2022). *Effects of Carbon-Based Anode Materials on the COD Detection Performance of Microbial Fuel Cell with Landfill Leachates*. 49(6).
- Sonjaya, R. P., Aliyya, F. R., & Naufal, S. (2025). *Pengujian Prasyarat Analisis Data Nilai Kelas : Uji Normalitas dan Uji Homogenitas*. 9, 1627–1639.
- Suhartini, S., Vinurila, A., Ainur, N., Putra, A., Pratama, A., Atsari, I., Hidayat, N., Mayang, N., Sunyoto, S., Waladatun, R., Fatriasari, W., & Melville, L. (2025). *South African Journal of Chemical Engineering Efficient tofu wastewater treatment with biofiltration using OPEFB-activated carbon*. *South African Journal of Chemical Engineering*, 54(September), 506–518. <https://doi.org/10.1016/j.sajce.2025.09.012>
- Sumiyati, S. (2023). *An Overview of Wastewater from Traditional Tofu Industries*

- in Sugihmanik Village , Grobogan Regency and its Appropriate Treatment Alternative.* <https://doi.org/10.1088/1755-1315/1169/1/012038>
- Syafaati, A. D., Wulan, D. R., & Nugraha, I. (2019). *Potensi Perolehan Energi Listrik dalam Proses Pengolahan Limbah Tahu Melalui Microbial Fuel Cell (MFC).* 3(2), 41–50.
- Tama, M. A. D., Purnomo, Y. S., Qothrunada, S., & Nisa, Z. (2024). *Pengaruh Jenis Anoda Microbial Fuel Cells Terhadap Power Density Dan Penyisihan Kandungan Organik Limbah Cair Industri Tahu.* IX(4), 10714–10723.
- Tariq, M., Wang, J., Jalal, A., Salim, M., & Mahmood, Q. (2021). Effect of Substrate Ratios on the Simultaneous Carbon , Nitrogen , Sulfur and Phosphorous Conversions in Microbial Fuel Cells. *Heliyon*, 7(May), e07338. <https://doi.org/10.1016/j.heliyon.2021.e07338>
- Tchobanoglous, G., Stensel, H. D., Tsuchihashi, R., Burton, F., Orf, M. A., Bowden, G., & Pfrang, W. (2014). *Wastewater Engineering.*
- Tharali, A. D., Sain, N., & Osborne, W. J. (2016). *Microbial Fuel Cells in Bioelectricity Production.* 3769(December). <https://doi.org/10.1080/21553769.2016.1230787>
- Veeramani, V., Rajangam, K., & Nagendran, J. (2020). *Performance of cobalt oxide / carbon cloth composite electrode in energy generation from dairy wastewater using microbial fuel cells.* 4, 0–7.
- Vistanty, H., & Malik, R. A. (2019). Enhanced Performance of Multi-Stage Anaerobic Digestion of Tofu Wastewater: Role of Recirculation. *Jurnal Riset Teknologi Pencegahan Pencemaran Industri*, 10(1), 29–37.
- Wafi, M. A., Garnet, M., Ahmad, R., & Cahyono, B. E. (2024). *Pemanfaatan Limbah Cair Tahu dengan Teknologi Microbial Fuel Cell (MFC) Berbasis Keramik Utilization of Tofu Liquid Waste with Ceramic-Based Microbial Fuel Cell (MFC) Technology.* 25(2), 95–100.
- Wahyu, V., Safitri, M., & Rachmanto, A. (2020). *Pengaruh Jenis Elektroda terhadap Power Density pada Microbial Fuel Cell dengan Penambahan Granular Activated Carbon.* 12(2), 1–9.
- Wang, H., Lu, L., Cui, F., Liu, D., Zhao, Z., & Xu, Y. (2012). *Simultaneous Bioelectrochemical Degradation of Algae Sludge and Energy Recovery in*

- Microbial Fuel Cells*. 7228–7234. <https://doi.org/10.1039/c2ra20631e>
- Winfield, J., Greenman, J., & Ieropoulos, I. (2019). Response of Ceramic Microbial Fuel Cells to Direct Anodic Airflow and Novel Hydrogel Cathodes. *International Journal of Hydrogen Energy*, xxxx. <https://doi.org/10.1016/j.ijhydene.2019.04.024>
- Wu, B., Wang, X., Deng, Y., He, X., Li, Z., Li, Q., Chen, J., He, M., Zhang, M., Hu, G., & Yin, X. (2025). *Adaption of Microbial Community During the Start-Up Stage of a Thermophilic Anaerobic Digester Treating Food Waste*. 8451. <https://doi.org/10.1080/09168451.2016.1191326>
- Wulan, P. P., Gozan, M., Arby, B., & Achmad, B. (2018). *Penentuan Rasio Optimum C : N : P Sebagai Nutrisi Pada Proses Biodegradasi Benzena-Toluena Dan Scale Up Kolom Bioregenerator*. 2018(May).
- Xuan, T., Le, H., Bechelany, M., Cretin, M., Xuan, T., Le, H., Bechelany, M., & Cretin, M. (2021). *Carbon Felt Based-Electrodes for Energy and Environmental Applications : A Review to Cite This Version*.
- Yang, Y., Li, X., Yang, X., & He, Z. (2016). *Membrane Aeration as an Energy-efficient Method for Supplying Oxygen to Microbial Fuel Cells†*. <https://doi.org/10.1039/C6RA09189J>
- Yesa, M. M. (2025). *Penyisihan Kandungan Organik Air Limbah Pabrik Tahu Menggunakan Microbial Fuel Cell Variasi Ukuran Elektroda dan Penambahan Lumpur Tinja untuk Menghasilkan Listrik*.
- Yulianti, D. A. (2019). *Kadar Total Suspended Solid pada Air Sungai Nguneng Sebelum dan Sesudah Tercemar Limbah Cair Tahu Total Suspended Solid Content in Nguneng River Water Before and After Tainted with Liquid Tofu Waste Jurusan Analis Kesehatan Poltekkes Kemenkes Semarang Jl. 01(01), 16–21*.
- 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>