DAFTAR PUSTAKA

Abbas, S. Z., Rafatullah, M., Ismail, N., & Shakoori, F. R. (2018). Electrochemistry and microbiology of microbial fuel cells treating marine sediments polluted with heavy metals. *RSC Advances*, *8*(34), 18800–18813. https://doi.org/10.1039/C8RA01711E

Aghababaie, M., Farhadian, M., Jeihanipour, A., & Biria, D. (2015). Effective factors on the performance of Microbial Fuel Cells in wastewater treatment. *Environmental Technology Review,*1-21.

Agus, D. F., Sulaeman, Suparto, & Eviati. (2005). Geologie. In *Handbuch der Mediterranistik*. https://doi.org/10.30965/9783657766277_011

Al Anshari, M. D., & Irawan, A. (2020). Status Trofik Telaga Koto Baru Kabupaten Tanah Datar . *JURNAL AERASI*, *2*(2), 54-63.

Barrow, G. I., & Feltham, R. K. A. (2004). Cowan and Steel's Manual for the identification of medical bacteria. In *Cambridge University Press* (Vol. 4, Issue 3). http://marefateadyan.nashriyat.ir/node/150

BPPT. 2016. Outlook Energi Indonesia (2016). Jakarta: Badan Pengkajian dan Penerapan Teknologi (BPPT).

Benson. 2001. Microbiological Application Lab Manual. 8 th Ed. Mc Graw Hill Companies. New York.

Cappuccino, J.G. dan Chad, W. 2017. Microbiology: A Laboratory Manual. 11th Ed. Pearson Education. Benjamin Cummings Publshing Company inc. England.

Cappucino, J. G., & Sherman, N. (2014). *Microbiology a Laboratory Manual* (10th editi). Pearson Education, Inc. USA.

Chaudhuri, S. K., & Lovley, D. R. (2003). Electricity generation by direct oxidation of glucose in mediatorless microbial fuel cells. *Nature biotechnology*, *21*(10), 1229-1232.

Chae, K. J., Choi, M., Ajayi, F. F., Park, W., Chang, I. S., & Kim, I. S. (2008).

Mass transport through a proton exchange membrane (Nafion) in microbial fuel cells. *Energy and Fuels*, *22*(1), 169–176. https://doi.org/10.1021/ef700308u

Chae, K. J., Choi, M. J., Lee, J. W., Kim, K. Y., & Kim, I. S. (2009). Effect of different substrates on the performance, bacterial diversity, and bacterial viability in microbial fuel cells. *Bioresource Technology*, *100*(14), 3518–3525. https://doi.org/10.1016/j.biortech.2009.02.065

Das, D. (2017). *Microbial Fuel Cell A Biolectrochemical System that Converts Waste to Watts*. Springer.

Do, M. H., Ngo, H. H., Guo, W. S., Liu, Y., Chang, S. W., Nguyen, D. D., Nghiem, L. D., & Ni, B. J. (2018). Challenges in the application of microbial fuel cells to wastewater treatment and energy production: A mini review. *Science of the Total Environment*, *639*, 910–920. https://doi.org/10.1016/j.scitotenv.2018.05.136

Du, Z., Li, H., & Gu, T. (2007). A state of the art review on microbial fuel cells: A promising technology for wastewater treatment and bioenergy. *Biotechnology Advances*, *25*(5), 464–482. https://doi.org/10.1016/j.biotechadv.2007.05.004

Fauzi, A., Yudha, I., & Ayu, M. (2020). *Tingkat Dekomposisi Bahan Organik pada Sedimen Tambak Udang Vanname di Desa Musi , Kecamatan Gerokgak , Buleleng , Bali*. *15*(2), 8–15.

Garba, N. A., Sa'adu, L., & Balarabe, M. D. (2017). An Overview of the Substrates used in Microbial Fuel Cells. *Greener Journal of Biochemistry and Biotechnology*, *4*(2), 007–026.

Grimont, F., & Grimont, P. A. (2006). The genus enterobacter. Prokaryotes, 6, 197-214.

Goldman, C. R and A. S. Horne. 1983. Study State Growth of Phytoplankton in Continous Culture: Comparison of Internal and External Nutrien Equation.

Hermayanti, A., & Nugraha, I. (2014). Potensi perolehan energi listrik dari limbah cair industri tahu dengan metode salt bridge microbial fuel cell. *J. Sains*

Dasar, *3*(2), 162–168.

Holmes, D. E., Bond, D. R., O'Neil, R. A., Reimers, C. E., Tender, L. R., & Lovley, D. R. (2004). Microbial communities associated with electrodes harvesting electricity from a variety of aquatic sediments. *Microbial Ecology*, *48*(2), 178–190. https://doi.org/10.1007/s00248-003-0004-4

Hong, S. W., Chang, I. S., Choi, Y. S., & Chung, T. H. (2009). Experimental evaluation of influential factors for electricity harvesting from sediment using microbial fuel cell. *Bioresource Technology*, *100*(12), 3029–3035. https://doi.org/10.1016/j.biortech.2009.01.030

Hong, S. W., Kim, H. J., Choi, Y. S., & Chung, T. H. (2008). Field experiments on bioelectricity production from lake sediment using microbial fuel cell technology. *Bulletin of the Korean Chemical Society*, *29*(11), 2189–2194. https://doi.org/10.5012/bkcs.2008.29.11.2189

Jadhav, G. S. and M. M. Ghangrekar. 2009. Performance of microbial fuel cell subjected to variation in pH, temperature, external load, and substrate concentration. Bio Res Technol 100: 717-723.

Jonesti, W. P. (2017). Pemanfaatan Sedimen Muaro Padang Penghasil Energi Listrik Menggunakan Teknologi Sediment Microbial Fuel Cell (SMFC). In *Universitas Andalas*. https://ci.nii.ac.jp/naid/40021243259/

Khairunnas, K., & Gusman, M. (2018). Analisis Pengaruh Parameter Konduktivitas, Resistivitas dan TDS Terhadap Salinitas Air Tanah Dangkal pada Kondisi Air Laut Pasang dan Air Laut Surut di Daerah Pesisir Pantai Kota Padang. *Bina Tambang*, *3*(4), 1751–1760. http://ejournal.unp.ac.id/index.php/mining/article/view/102295

Khanal, S. K. (2009). Anaerobic Biotechnology for Bioenergy Production: Principles and Applications. In *Anaerobic Biotechnology for Bioenergy Production: Principles and Applications*. https://doi.org/10.1002/9780813804545

Kim, S., Chae, K. J., Choi, M. J., & Verstraete, W. (2011). Microbial fuel cells: Recent advances, bacterial communities and application beyond electricity

generation. *Environmental Engineering Research*, *16*(4), 51–65. https://doi.org/10.4491/eer.2008.13.2.051

Kristin, E. (2012). *Produksi Energi Listrik Melalui Microbial Fuel Cell Menggunakan Limbah Industri Tempe*. 1–50.

Lay, . B. W., & Sugyo, H. (1992). *Mikrobiologi*. Rajawali Press.

Liang, P., Huang, X., Fan, M. Z., Cao, X. X., & Wang, C. (2007). Composition and distribution of internal resistance in three types of microbial fuel cells. *Applied Microbiology and Biotechnology*, *77*(3), 551–558. https://doi.org/10.1007/s00253-007-1193-4

Logan, B. E. (2008). Microbial Fuel Cells. In *Treatise on Water Science* (Vol. 4). https://doi.org/10.1016/B978-0-444-53199-5.00098-1

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

Lovley, D. R. (2006). Bug juice: Harvesting electricity with microorganisms. *Nature Reviews Microbiology*, *4*(7), 497–508. https://doi.org/10.1038/nrmicro1442

Mohan, S. V., Srikanth, S., Raghuvulu, S. V., Mohanakrishna, G., Kumar, A. K., & P. N. Sarma. (2009). Evaluation of the potential of various aquatic eco-systems in harnessing bioelectricity through benthic fuel cell: Effect of electrode assembly and water characteristics. *Bioresource Technology*, *100*(7), 2240–2246. https://doi.org/10.1016/j.biortech.2008.10.020

Octavia, P., Kirom, M. R., Iskandar, R. F., Elektro, F. T., Telkom, U., Chamber, C. D., Cinta, J., Gembong, M., Bekasi, K., & Bakau, L. (2018). *Pengaruh Elektroda Pada Kinerja Microbial Fuel Cell Dengan Menggunakan Lumpur Bakau Sebagai Substrat the Impact of Electrodes on Microbial Fuel Cell Performance on the Resulted Electric Power Density Using Mangrove Mud As Substrate*. *5*(2), 2350–2357.

Pant, D., Van Bogaert, G., Diels, L., & Vanbroekhoven, K. (2010). A review of

the substrates used in microbial fuel cells (MFCs) for sustainable energy production. *Bioresource Technology*, *101*(6), 1533–1543. https://doi.org/10.1016/j.biortech.2009.10.017

Parija S.C. 2012. Microbiology and Immunology. 2 nd Edition. Elesevier. India.

Paus, T., Hutapea, H., Marbun, S. N., & Weliyadi, E. (2019). *Tri Paus Hasiholan Hutapea1)*, Siska Nofrida Marbun2), Encik Weliyadi2)*. *12*(1), 1–8.

Prescott, L. M., & Klein, P. H. (2002). *Schizanthus 5 t h E d i t i o n*.

Putra, R. P., Zulkarnaini, & Komala, P. S. R. I. (2020). Start – Up Proses Anammox Menggunakan Lumpur Telaga Koto Baru sebagai Inokulum Start-Up Anammox Process Using Sludge from Koto Baru Lake as Inoculum. *Jurnal Teknologi Lingkungan*, *21*(1), 9.

Rabaey, K., & Verstraete, W. (2005). Microbial fuel cells: Novel biotechnology for energy generation. *Trends in Biotechnology*, *23*(6), 291–298. https://doi.org/10.1016/j.tibtech.2005.04.008

Rahimnejad, M., Adhami, A., Darvari, S., Zirepour, A., & Oh, S. E. (2015). Microbial fuel cell as new technol ogy for bioelectricity generation: A review. *Alexandria Engineering Journal*, *54*(3), 745–756. https://doi.org/10.1016/j.aej.2015.03.031

Riyanto, B., Mubarik, N. R., & Idham, F. (2011). Electrical Energy from Jakarta Bay Marine Sediment Through Microbial Fuel Cell Technology. *Jurnal Pengolahan Hasil Perikanan Indonesia*, *XIV*(1), 32–42.

Sahu, O. (2019). Sustainable and clean treatment of industrial wastewater with microbial fuel cell. *Results in Engineering*, *4*, 100053. https://doi.org/10.1016/j.rineng.2019.100053

Silvia, S. L. (2015). *Jurnal Praktikum Sedimentologi 2015 Analisis Ph Dan Fosfat (Kimia Sedimen) Dalam Sedimen Pada Perairan Sungai Musi, Palembang, Sumatera Selatan Sindy Lise Silvia*. *08121005035*, 1–12.

Simbolon, A. R. (2016). Pencemaran Bahan Oganik Dan Eutrofikasi di Perairan Cituis, Pesisir Tanggerang. *Jurnal Pro-Life*, *3*, 2.

Thomas, Y. R. J., Picot, M., Carer, A., Berder, O., Sentieys, O., & Barrière, F. (2013). A single sediment-microbial fuel cell powering a wireless telecommunication system. *Journal of Power Sources*, *241*, 703–708. https://doi.org/10.1016/j.jpowsour.2013.05.016

Umaternate, G. R., Abidjulu, J., & Wuntu, A. D. (2014). Uji Metode Olsen dan Bray dalam Menganalisis Kandungan Fosfat Tersedia pada Tanah Sawah di Desa Konarom Barat Kecamatan Dumoga Utara. *Jurnal MIPA*, *3*(1), 6. https://doi.org/10.35799/jm.3.1.2014.3898

U.S. Environmental Protection Agency. (2020). Sediment Sampling. 1–17.

Wiryawan, B. N. A. P., Mahendra, I. N. A., Kuntayoni, N. A., & Dewanti, A. I. A. (2014). Analisis Potensi Sedimen Hutan Bakau Sebagai Sumber Energi Listrik dengan Menggunakan Teknologi Sediment Microbial Fuel Cell (SMFC). *Seminar Nasional FMIPA UNDIKSHA IV Tahun 2014*, *2*, 399–407.

Yuniarto, Y., & Ariyanto, E. (2018). Korektor Faktor Daya Otomatis Pada Instalasi Listrik Rumah Tangga. *Gema Teknologi*, *19*(4), 24. https://doi.org/10.14710/gt.v19i4.19153

Zhang, Y., & Angelidaki, I. (2012). *Energy recovery from waste streams with microbial fuel cell (MFC) -based technologies*.