

## DAFTAR PUSTAKA

- Aminin, A. L. N., D. H. Sinaga dan L. Suyati. 2014. Studi Pendahuluan Pemanfaatan *Whey* Tahu sebagai Substrat dan Efek Luas Permukaan Elektroda dalam Sistem *Mircobial Fuel Cell*. *Jurnal Sains dan Matematika* 22 (2): 30-35.
- Cappuccino, J. G. and N. Sherman. 2005. *Microbiology: a Laboratory Manual*. 7<sup>th</sup> Ed. Pearson Education, Inc. Publishing as Benjamin Cummings. San Francisco. CA.
- Chadhuri, S. K. and D. R. Lovley. 2003. Electricity generation by direct oxidation of glucose in mediatorless microbial fuel cell. *Nat Biotechnol* 21: 1229-1232.
- Chae, K. J., Choi M, Ajayi FF, Park W, Chang IS, Kim IS. 2008. Mass transport through a proton exchange membrane (Nafion) in microbial fuel cells. *Journal Energy Fuel* 22(1): 169-176.
- Cowan, S. T. and Steel K. J. 1974. *Manual for Identification of Medical Bacteria Second Edition*. Cambridge University Press. London.
- Dahuri, R., Y. Rais, S. G. Putra, M. J. Sitepu. 2001. *Pengelolaan Sumberdaya Wilayah Pesisir dan Lautan secara Terpadu*. PT. Pradnya Paramita. Jakarta. 328 hlm.
- Dobbin, P. S., Carter J. P., San Juan C. G. S., von Hobe M., Powellm A. K. and Richardson D. J. (1999) Dissimilatory Fe(III) reduction by *Clostridium beijerinckii* isolated from freshwater sediment using Fe(III) maltol enrichment. *FEMS Microbiol Lett* 176: 131–138
- Eviati dan Sulaeman. 2009. *Analisis Kimia Tanah, Tanaman, Air, dan Pupuk*. Petunjuk Teknis Edisi 2. Balai Penelitian Tanah. Bogor.
- Franks, A. E. and K. P. Nevin. 2010. Microbial Fuel Cells, A Current Review. *Energies* 3 : 899-919.
- Gray, J. S. And M. Elliott. 2009. *Ecology of Marine Sediments* 2<sup>th</sup> Ed. Oxford Press. New York.
- Harley, J. P. And L. M. Prescott. 2002. *Laboratory Exercises in Microbiology* 5<sup>th</sup> Ed. McGraw-Hill Companies.
- Holmes, D. E., D. R. Bond, R. A. O'Neil, C. E. Reimers, L. M. Tender, and D. R. Lovley. 2004. Microbial community associates with electrodes harvesting electricity from a variety of aquatic sediments. *Journal Microbial Ecology* 48(2): 178-190.

- Hong, S. W., H. S. Kim and T. H. Chung. 2010. Alteration of sediment organic matter in sediment microbial fuel cells. *Journal Environmental Pollution* 158(1): 185-191.
- Hong, S. W., Y. S. Choi, T. H. Chung, J. H. Song and H. S. Kim. 2009. Assessment of sediment remediation potential using microbial fuel cell technology. *World Academy of Science, Engineering and Technology*. 54 : 683-689.
- Hong, S.W., H. J. Kim, Y. S. Choi and T. H. Chung. 2008. Field experiments on bioelectricity production from lake sediment using microbial fuel cell technology. *Bulletin of Korean Chemical Society* 29(11) : 2189-2194.
- Idham, F. 2010. Potensi Sedimen Laut Perairan Teluk Jakarta sebagai Substrat *Sediment Microbial Fuel Cell*. Skripsi Sarjana Departemen Teknologi Hasil Perairan Fakultas Perikanan dan Ilmu Kelautan IPB. Bogor.
- 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.
- Killops, S. D. and V. J. Killops. 1993. *An Introduction to Organic Geochemistry*. Longman Scientific & Technical, London.
- Kim, H.J., H. S. Park, M. S. Hyun, I. S. Chang, M. Kim and B. H. Kim. 2002. A mediator-less microbial fuel cell using a metal reducing bacterium, *Shewanella putrefaciens*. *Enzyme Microb Technol* 30: 145-152.
- Kristin, E. 2012. *Produksi Energi Listrik melalui Microbial Fuel Cell menggunakan Limbah Industri Tempe*. Skripsi Sarjana Teknologi Bioproses Fakultas Teknik UI. Depok.
- Liu, H. 2008. *Microbial Fuel Cell : Novel Anaerobic Biotechnology for Energy Generation from Wastewater*. *Anaerobic Biotechnology for Energy Production : Principles and Application*. S. Khanal. Iowa, Blackwell Publishing : 221-243
- Logan, B. E., B. Hamelers, R. Rozendal, U. Schroder, J. Keller, S. Freguia, P. Aelterman, W. Verstraete, K. Rabaey. 2006. Microbial fuel cells: methodology and technology. *Environmental Science and Technology* 40:5181-5192.
- Lovley, D. R. 2006. Bug Juice : Harvesting electricity with microorganisms. *Journal of Nature Reviews Microbiology* 4(7) : 497-508.
- Mathuriya, A. S. and V. N. Sharma. 2009. Bioelectricity production from paper

industry waste using a microbial fuel cell by *Clostridium* species. *J Biochem Tech.* 1 (2): 49-52

Moriber, G. 1974. *Environmental Science*. Allyn and Bacon. Inc. Boston. 549p.

Mulyadi, H., Mubarak dan D. Yoswaty. 2015. Sebaran Fraksi Sedimen Dasar Permukaan di Perairan Pantai Pulau Topang Provinsi Riau. *Dinamika Lingkungan Indonesia* 26- 31.

Nyabakken, J. W. 1992. *Biologi Laut: Suatu Pendekatan Ekologis*. Diterjemahkan oleh H.M. Eidman, Koesoebiono *et al.* PT Gramedia. Jakarta.

Pant, D., G. V. Bogaert, L. Diels and K. Vanbroekhoven. 2010. A review of the substrates used in microbial fuel cells (MFCs) for sustainable energy production. *Journal Bioresource Technology* 32(9): 870-876.

Park, D.H. and J. G. Zeikus. 2003. Improved fuel cell and electrode designs for producing electricity from microbial degradation. *Biotechnol. Bioengin.* 81(3): 348-355.

Pelczar, M. J. and E. C. S. Chan. 1986. *Dasar-Dasar Mikrobiologi*. Jilid I. Terjemahan Ratna Siri Hadioetomo. UI Press. Jakarta.

Pisciotta, J. M., Z. Zehra, F. C. Douglas, N. Joo-Youn and E. L. Bruce. 2012. Enrichment of Microbial Electrolysis Cell Biocathodes from Sediment Microbial Fuel Cell Bioanodes. *Applied and Environmental Microbiology*. 8(15): 5212

Putri, W. A. E. 2010. Pencemaran bahan organik di Muara Sungai Batang Arau Padang Sumatera Barat. *Maspari Journal* 01: 30-34.

Rabaey, K., W. Ossieur, M. Verhaege and W. Verstraete. 2005. Continuous microbial fuel cells convert carbohydrates to electricity. *Wat. Sci. Technol.* 52 (1-2) 515-523.

Rafni, R. 2004. Kapasitas asimilasi beban pencemar di perairan Teluk Jobokuto Kabupaten Jepara Jawa Tengah. Tesis Sekolah Pasca sarjana. IPB. Bogor.

Rayment, G. E., and F. R. Higginson. 1992. *Australian Laboratory Handbook of Soil and Water Chemicals Methods*. Inkata Press. Sydney.

Riyanto, B., N. R. Mubarik dan F. Idham. 2011. Energi listrik dari sedimen laut Teluk Jakarta melalui teknologi *microbial fuel cell*. *Jurnal Pengolahan Hasil Perikanan Indonesia* 14(1): 32-42.

Saunders, G. W. 1980. *Organic matter and Decomposers. In The Functioning of*

*Freshwater Ecosystem* Eds. by E.D. Le Cren and R.H. Lowe-Mc. Connel. Cambridge University Press. 588 p.

- Scott, K., I. Cotlarciuc, I. Head, K. P. Katuri, D. Hall, J. B. Lakeman and D. Browning. 2008. Fuel cell power generation from marine sediments : investigation of cathode materials. *Journal of Chemical Technology and Biotechnology* 83(9):1244-1254.
- Sunarto. 2003. Peranan Dekomposisi Dalam Proses Produksi Pada Ekosistem Laut. IPB. Bogor.
- Supriadi, I. H. 2001. Dinamika Estuaria Tropik. *oseana*. Volume 26 No. 4 (1-11).
- Tender, L. M., C. E. Reimers, H. A Stecher, D. E. Holmes, D. R. Bond, D. A. Lowy, K. Pilobello, S. J. Fertig and D. R. Lovley. 2002. Harnessing microbial generated power on the seafloor. *Nature Biotechnol* 20: 821-825.
- Tjandra, S., M. R Rinaldi, V. Reinaldo and A. Muhyinsyah. 2010. *Electricity Generation from Tapioca Wastewater using a Mircobial Fuel Cell (MFC)*. Department of Chemical Engineering, Faculty of Industrial Technology, Institut Bandung. Bandung.
- Torres, C. I., M. A. Kato and B. E. Rittmann. 2008. Proton transport inside the biofilm limits electrical current generation by anoda-respiring bacteria. *Biotechnol Bioeng* 100: 872-881.
- Volk, W. A. dan M. F. Wheeler. 1993. *Mikrobiologi Dasar*. Jilid 1. Edisi ke-5. Erlangga. Jakarta.
- Voroney, R. P. 2007. The Soil Habitat. Di dalam: Paul EA (editor). *Soil Microbiology, Ecology, and Biochemistry*. Chennai: Elvesir Inc.
- Willey, J. M., L. M. Sherwood and C. J. Woolverton. 2008. *Prescott, Harley and Kleins's Microbiology*. 7<sup>th</sup> Edn. McGraw-Hill Higher Education. USA.
- Winaya, I. N. S., M. Sucipta dan A. A. K. W. Putra. 2011. Memanfaatkan Air Bilasan Bagas Untuk Menghasilkan Listrik Dengan Teknologi *Microbial Fuel Cells*. *Jurnal Ilmiah Teknik Mesin* 5 (1): 57-63.