

DAFTAR PUSTAKA

- Abdul-Ghani, N. 2008. Quantitative analysis of biodegradation of PAHs by using microbes in oil sludge. Master dissertation, Department of Environment, vil *Engineering*, Universiti Teknologi MARA (Unpublish).
- Agency for Toxic Substances and Disease Registry (ATSDR). 1990. *Public Health Statement, Polycyclic Aromatic Hydrocarbons*. Atlanta, GA: U.S. Department of Health and Human Services.
- APHA. 2005. Standard Methods for the Examination of Water and Wastewater. 21st Ed. *American Public Health Association*. Washington D.C.
- Atlas, R.M and Bartha, R. 1997. *Microbial Ecology: Fundamentals and Applications 4th ed*. Benjamin Cumming Publishing, Co. Inc. Redwood City. California.
- Balashova NV, Koshelva IA, Golovchenko NP, Boronin AM. Phenanthrene Metabolism by *Pseudomonas* and *Burkholderia* Strain. *Process Biochem* 1999;35:291–6.
- Banat, I., dan Rancich, I. 2009. No Man Entry Tank Cleaning' and „Voc Control' Using Biotechnological Interventions. *Environmental Technologies for Refineries*. University of Ulster. Akses internet tanggal : 30 Oktober 2014. <http://www.tankstorageinternational.com/pdf/09/Banat.pdf>
- Blaber, M. 1998. Growth in Bacterial Populations. *Molecular Biology and Biotechnology*. BCH5425 : Lecture 12.
- Bossert, I. D., Kachel, W. M., Bartha, R. 1984. Fate of Hydrocarbon During Oily Sludge Disposal in Soil. *Appl. Environ. Microbiol.* 4: 763-767
- Budiawan. 2009. Biodegradasi Fenantren oleh Bakteri Laut *Pseudomonas* sp KalP3b22 Asal Kumai Kalimantan Tengah. *Makara*. 77-80
- Coral, G. And Karagoz, S. 2005. Isolation and Characterization Phenanthrene-Degrading Bacteria from a Petroleum Refinery Soil. *Annal of Microbiology*. Vol. 55 (2) 255-25
- Das, N., and Chandran, P. 2011. Microbial Degradation of Petroleum Hydrocarbon Contaminants : An Overview. *Biotechnology Research International*. doi:10.4061/2011/941810
- Deziel, E., Paquette, G., Villemur, R., Lepine, F., Bisailon, J.G. 1999. *Appl. Environment Microbiol.* 62, 1908-1912
- Fatimah, Ni'matuzahroh, Alami, N.H., Supriyanto, A., dan Affandi. 2009. Screening of biosurfactan production of hydrocarbonoclastic microbe isolated from oil pollute soil. *Proceeding*. 10th Congress and International Conference of Indonesian Society for Microbiology. 317-324.

- Gavarov, A.B., Panov, A.V., Filonov, A.E., dan Boronin, A.M. 2006. Change in the Composition of a Bacterial Association Degrading Aromatic Compounds During Oil Sludge Detoxification in a Continuous-flow Microbial Reactor. *Applied Biochemistry and Microbiology*. 2, 160-165.
- Goldman R. 2001. Smoking Increases Carcinogenic Polycyclic Aromatic Hydrocarbons in Human Lung Tissue. *Cancer Research* 61: 6367-6371.
- Helmy, Q., Kardena, E., Nurachman, Z. dan Wisjnuaprpto. 2010. Application of Biosurfactant Produced by *Azotobacter Vinelandii* AV01 for Enhanced Oil Recovery and Biodegradation of Oil Sludge. *International Journal of Civil & Environmental Engineering IJCEE*. 01, 7-14.
- Jacques, R. J.S., Santos, E. C., Bento, F. M., Peralba, M. C. R., Selbach, P. A., Enilson L.S., and Camargo. 2005. Anthracene Biodegradation by *Pseudomonas* sp. Isolated from a Petrochemical Sludge Land farming Site. *International Biodeterioration & Biodegradation*. 56, 143–150
- Joseph, P.J. dan Joseph, Ammini. 2009. Microbial Enhanced Separation of Oil from a Petroleum Refinery Sludge. *Journal of Hazardous Materials*. 161, 522–525.
- Koch, E. 2011. Biodegradation of Polycyclic Aromatic Hydrocarbons by *Arthrobacter* sp. Ug50 Isolated from Petroleum Refinery Wastes. *Thesis*. The University of Guelph.
- Leahy, J.G, dan Colwell, R.R. 1990. Microbial degradation of hidrocarbons in the environment. *Microbiological Reviews*. 305-315.
- Li, C. L., and Chen, B. H. 2009. Surfactant-mediated Biodegradation of Polycyclic Aromatic Hydrocarbons. *Materials Review*. 2, 76-94
- Lin, M., Hu, X., Chen, W., Wang, H., Wang, C. 2014. Biodegradation of Phenanthrene by *Pseudomonas* sp. BZ-3, Isolated from Crude Oil Contaminated Soil. *International Biodeterioration & Biodegradation*. Vol. 94, 176-181.
- Madigan, M.T., Martinko, J.M., Parker, J. 2003. Brock biology of microorganism. Tenth Edition. Prentice Hall. New Jersey, USA.
- Makkar., R.S. and Cameotra, S.S. 2002. Effect of various nutritional supplements on biosurfactant production by a strain of *Bacillus subtilis* at 45 °C. *Journal of Surfactants and Detergents*. 5(1),11-17.
- Mallick, S., Chatterjee, S., and Dutta, T. K. 2007. A Novel Degradation Pathway in The Assimilation of Phenanthrene by *Staphylococcus* sp. strain PN/Y Via Metacleavage of 2-hydroxy-1-naphthoic acid: formation of trans-2,3-dioxo 5-(29-hydroxyphenyl)-pent-4-enoic acid. *Microbiology*. 153, 2104-2115.
- Mishra, S., Jyot, J., Kuhad, R.C. dan Lal, B. 2001. Evaluation of Inoculum Addition to Stimulate In Situ Bioremediation of Oily Sludge-Contaminated Soil. *Applied and Environmental Biology*. 4, 1675-1681.

- Morgan P, Watkinson RJ. 1994. *Biodegradation of Component Petroluem*. C Railedge, editor. Biochemistry of Microbial Degradation. Netherlands:Kluwer Academic Pb dalam Karwati 2009.
- Mrozik, A., Seget Z., Labuzek S. 2002. Bacterial Biodegradation and Bioremediation of Polycyclic Aromatic Hydrocarbon. *Polish Journal of Environmental Studies Vol. 12, No. 1 (2003), 15-25*
- Ni'matuzahroh, Fatimah, Purbowati, R., Thantowi, A. Supriyanto, A., dan Affandi, M. 2009. Exploration of Polyaromatic Hydrocarbonoclastic Microbes from Oil Poluted Soil. *Proceeding. 10th Congress and International Conference of Indonesian Society for Microbiology. 227-235.*
- Noch, F.M. 2010. Kasus VICO Indonesia dengan Masyarakat Penggarap Lahan Desa Semangko KM.5/KM.28 Kecamatan Marangkayu Kabupaten Kutai Kartanegara. *Natural Resources Law.*
- Pitcher DG, Sauders SA, Owen RJ. Rapid Extraction of Bacterial Genomic DNA with Guanidium Thiocyanate. *Lett Appl Microbial* 1989;8:151-6.
- Pratiwi, I.A. 2014. Biodegradasi Komponen Hidrokarbon *Oily Sludge* oleh *Micrococcus* sp. L II 61
- Prayekti, E. 2012. Efektivitas Bioaugmentasi dalam Bioremediasi Limbah Lumpur Minyak (*oil sludge*). *Tesis. Departemen Biologi, Fakultas Sains dan Teknologi, Universitas Airlangga, Surabaya*
- Pruthi, V. dan Cameotra S. S. 1997. Rapid Identification of Biosurfactant Producing Bacterial Strain Using A Cell Surface Hydrophobicity Techniques. *Biotechnol Technique. 11 (9), 671-674.*
- Rahman, K., .M., Rahman, T.J., Banat, I.M., Lord, R., dan Street, G. 2007. Bioremediation of petroleum sludge using bacterial consortium with biosurfactant. *Environmental Bioremediation Technology. Springer.*
- Rochdiana, L. 2012. Perubahan Struktur Fenantren Selama Proses Biodegradasi oleh Bakteri *Bacillus altitudinis*. *Skripsi. Fakultas Matematika dan Ilmu Pengetahuan Alam, Institut Pertanian Bogor.*
- Roostan, Z., Safahiieh, A., Mojodi, F., Zolgharnein, H., Ghanaemi, K., and Abiar, H. 2012. Phenanthrene Biodegradation by *Pseudomonas aeruginosa* and *Bacillus subtilis* Isolated from Persian Gulf Sediment. *African Journal of Microbiology Research. Vol.6(21), pp. 4585-4591.*
- Samanta, S.K., Chakraborti, A.K., and Jain, R.K. 1999. Degradation of Phenanthrene by Different Bacteria: Evidence for Novel Transformation Sequences Involving the Formation of 1-naphthol. *Appl. Microbiol. Biotechnol. Vol. 53, 98-107.*

- Sarbini, K. 2012. Biodegradasi Pyrena Menggunakan *Bacillus subtilis* C19. *Skripsi*. Fakultas Teknik, Program Studi Teknologi Bioproses, Departemen Teknik Kimia, Depok
- Seo, J.S., Keum, Y.S., and Li, Q.X. 2009. Bacterial Degradation of Aromatic Compounds. *Int. J. Environ. Res. Public Health*. Vol.6, 278- 309; doi:10.3390/ijerph6010278
- Skupinska, K., Misiewicz, I., and Guttman, T. 2004. Polycyclic Aromatic Hydrocarbons: Physicochemical Properties, Environmental Appearance and Impact on Living Organism. *Acta Poloniae Pharmaceutica-Drug Research*. Vol.3, No. 3 pp. 233-240
- Sudjana. 1996. *Metode Statistik*. Bandung. PT. Tarsito.
- Supaka, N., Pinphanichakarn, P., Pattaragulwanit, K., Thaniyavarn, S., Omori, T., and Juntongjin, K. 2000. Isolation and Characterization of a Phenanthrene-Degrading *Sphingomonas* sp. Strain P2 and Its Ability to Degrade Fluoranthene and Pyrene Via Comatabolism. *ScienceAsia*. Vol. 27, 21-28.
- Tao, X.Q., Lu, G.N., Dang Z., Yang C., Yi X.Y. 2007. A Phenanthrene Degrading Strain *Sphingomonas* sp. GY2B Isolated from Contaminated Soils. *Process Biochemistry*. Vol. 42, 401-408.
- Tran, H., Krujit, M., and Raaijmakers, J.M. 2008. Diversity and Activity of Biosurfactant-producing *Pseudomonas* in the Rhizosphere of Black Pepper in Vietnam. *J. of Appl. Microbiol.* 104(3).839-51.
- University of Minnesota Biocatalysis/Biodegradation Database (UMBBD). 2010. URL: <http://umbbd.msi.umn.edu/>.
- Xiang, L., Xiao-Min, M., Jiang-gang, Y., Barry, D.A., and Ling, L. 2006. Experiment Modelling of Phenanthrene Biodegradation in the Aqueous Phase by A Mixed Culture. *J. of Environmental Science*. Vol.18, No.1, 147-153.
- Yu, S.H., Ke, Y., Wong, Y.S., dan Tam, N.F.Y. 2005. Degradation of Polycyclic Aromatic Hydrocarbons (PAHS) by a Bacterial Consortium Enriched from Mangrove Sediments. *Environment International*. 31, 149– 154.
- Yulia, L.R., Marsa, B., Juliastuti, S.R. 2005. *Bioremediasi Air Laut Terkontaminasi Minyak Bumi dengan Menggunakan Bakteri Pseudomonas aeruginosa*. Teknik Kimia, Teknologi Industri, Institut Teknologi Sepuluh Nopember.
- Zam, S. I., 2011. Bioremediasi Tanah yang Tercemar Limbah Pengilangan Minyak Bumi secara *In Vitro* pada Konsentrasi pH Berbeda. *J. Argoteknologi*. Vol. 1, No. 2.
- Zhang, Y. and Miller, R.M. 1992. Enhanced Octadecane Dispersion and Biodegradation by A *Pseudomonas* Rhamnolipid Surfactant (Biosurfactant). *Applied and Environmental Microbiology*. 58(10), 3276-3282.

Zhang, G., Wu, Y., Qian, X., Meng, Q. 2005. Biodegradation of Crude Oil by *Pseudomonas aeruginosa* in the Presence Rhamnolipid. J. of Zhejiang University Science. 6B(8): 725-730

