

## DAFTAR PUSTAKA

- Acharya, C., Kar R.N., Sukla L.B., & Misra V.N. 2004. Fungal Leaching of Manganese Ore. *Trans Indian Inst Met.* **57**(5):501–508.
- Alexander, M. 1977. *Introduction to Soil Microbiology*. 2nd ed. John Willey & Son. New York.
- Anjum, F., Shahid M., & Akcil A. (2012) Biohydrometallurgy techniques of low grade ores: a review on black shale. *Hydrometallurgy.* **117–118**:1–12.
- Bibiana WL. 1994. Analisis Mikroba di Laboratorium. PT. Raja Grafindo Persada. Jakarta.
- Cao, J.B., Li X.M., Ouyang Y.Z., & Yang Q. 2012. Manganese-electrolysed Slag Treatment: Biorecovery of Manganese by *Fusarium* sp. *Environ Technol.* **33**(11):1307–1312.
- Cotton dan Wilkinson. 1989, *Kimia Anorganik Dasar*. Cetakan Pertama. Jakarta: UI-Press.
- Das, A.P., Shukla L.B., & Pradhan N. 2012. Microbial Recovery of Manganese using *Staphylococcus epidermidis*. *Int J Nonferrous Metal.* **1**:9–12.
- Das, A., Sansuta M., Shreya G. & Lala B.S. 2015. Advances in Manganese Pollution and Its Bioremediation. *Environmental Microbial Biotechnology.* **107**(16):313-330.
- Effendi, H. 2003. *Telaah Kualitas Air bagi Pengelolaan Sumber Daya dan Lingkungan Perairan*. Cetakan Kelima. Yogyakarta : Kanisius. p.146.
- Ehrlich, H. L. dan Newman, D. K. 2009. *Geomicrobiology*, 5th edn. Boca Raton, FL: CRC Press. USA.
- Fahrudin, 2010. *Bioteknologi Lingkungan*. Penerbit Alfa Beta. Bandung. p 163.
- Gadd, G.M. & White C. 1993. Microbial treatment of metal pollution working biotechnology. *Trends in Biotechnology* 3 (2): 353-359.
- Gadd, G.M. 1990. Metal tolerance. p 178-210. In C. Edward (Ed.). *Microbiology of extreme environments*. McGraw-Hill. New York.
- Harly, J. P. 2005. *Laboratory Exercises in Microbiology sixth Edition*. McGraw Hill Companies, inc, 1211, Avenue of the Americas. New York.
- Hermayani N.S. & Widiyanto. 2010. *Pengaruh Aktivitas Bakteri Sulfur Terhadap Aspek Geomikrobiologi di Perairan*. Pusat Penelitian Limnologi LIPI.
- Howe, P., Malcolm H., & Dobson S. 2004. *Manganese and its Compounds: Environmental Aspects*. World Health Organization Press, Geneva.
- Hudnell, H. K. (1999). Effects from environmental Mn exposures: A review of the evidence from non-occupational exposure studies. *Neurotoxicology.* **20**(2,3):379-398.
- Khaerah, A. 2016. Isolasi dan Karakterisasi Molekular Bakteri Pereduksi Sulfat dari Limbah Air Asam Tambang. *Tesis*. Sekolah Pasca Sarjana. Universitas Gadjah Mada. Yogyakarta.
- Kokare, C.R., Chakraborty A. N. K. & Mahadik K. R. 2009. Biofilm: Importance and applications. *Indian Journal of Biotechnology.* **8**:159-168.

- Lens, P., Zeeman, G., Lettinga, G. 2004. *Decentralized sanitation and reuse; concepts, systems and implementation*. IWA, Publishers, pp. 6.
- Li, W., Sun, L., Liang, Q., Wang, J., Mo, W., and Zhou, B. (2006). Yeast AMID homologue Ndi1p displays respiration-restricted apoptotic activity and is involved in chronological aging. *Mol. Biol. Cell.* 17: 1802–1811.
- Liang, Q. and Zhou B. (2007) Copper and Manganese Induce Yeast Apoptosis via Different Pathways. *Mol Biol Cell.* 18(12):4741-9.
- Madingan, M.T., Matinko J.M., Stahl D.A., and Clark D.P. 2012. *Brock Biology of Microorganisms*. Global Edition. Thirteen edition. Pearson education, Inc. San Fransisco.
- Margareth, P. 2009. *Analisa Kadar Total Suspended Solid (TSS), Amoniak (NH<sub>3</sub>), Sianida (CN<sup>-</sup>) dan Sulfida (S<sup>2-</sup>) Pada Limbah Cair Bapedaldasu*. Medan: Departemen Kimia Program Studi Diploma-3 Kimia Analis Fakultas Matematika dan Ilmu Pengetahuan Alam Universitas Sumatera Utara.
- Marganingrum, D. dan Noviard R. 2010. Pencemaran Air dan Tanah di Kawasan Pertambangan Batu Bara di PT Berau Coal, Kalimantan Timur. *Riset Geologi dan Pertambangan*. Vol. 20(1):11-20.
- Mehta, K.D., Das C., & Pandey B.D. 2010. Reductive leaching of valuable metals from Indian Ocean nodules by bacillus circulans. In: *Proceedings of The XI International Seminar On Mineral Processing Technology*, NML Jamshedpur, India.
- Nealson, K.H. 2006. National Research Council (NRC). Recommended dietary allowances. 10<sup>th</sup>. Washington DC: National Academic Press, 1989. *Manganese-oxidizing bacteria. Prokaryotes.* 5:222-231.
- Nealson, K. H. & Charles R. M. 1992. Microbial Reduction of Manganese and Iron: New Approaches to Carbon Cycling. *Applied and Environmental Microbiology.* 58(2):439-443.
- Ogurtsova L.V., Karavaiko G.I., Avakyan Z.A., & Korenevsi A.A. 1989. Activity of Various Microorganisms in Extracting Elements from Bauxite. *Microbiology.* 58:774–780.
- Pitt, J.I. and Hocking, A.D. 2013. *Fungi and Food Spoilage*. Springer. New York.
- Priest, F. & Goodfellow, M. 2012. *Applied Microbial Systematic*. Springer. London.
- Santos -Burgoa, S.C., Camilo R., Luis A. M., Rodolfo A., Fernando C., Rocio A. E., Jose L.T., Juan P. V., Yanneth R. & Sergio M. 2001. Exposure to Manganese: Health Effects on the General Population, a Pilot Study in Central Mexico. *Environmental Research Section.* 85:90-104.
- Socha, R., Juszczak, L., Pietrzyk, S. & Fortuna, T. 2009. Antioxidant activity and phenolic composition of herbhoneys. *Food Chemistry.* 113( 2) :568-574.
- Spain, A. 2003. Implications of Microbial Heavy Metal Tolerance in The Environment. *Reviews in Undergraduate Research.* 2: 1-6.
- Truper, H. & Schleifer, K.H. 2006. Prokaryote Characterization and Identification, pp. 58-75. Dalam M. Dworkin, S. Falkow, E. Rosenberg, K-H.Schleifer, dan E. Stackebrandt (Ed.). *The Prokaryotes*. Third Edition. A Handbook on the Biology of Bacteria : Symbiotic Associations, Biotechnology, *Applied Microbiology*. Volume 1. Springer. New York.

- Tang L., Li X., Li L., Mu G., & Liu G. 2006. The Effect of 1-(2-pyridylazo)-2-naphthol on The Corrosion of Cold Rolled Steel in Acid Media: Part 2: Inhibitive Action in 0.5 M Sulfuric Acid. *Mater Chem Phys.* **97**:301.
- Tedja IS. 2007. Eksperiment Mikrobiologi dalam Laboratorium. Penerbit Ardy Agency. Jakarta.
- Thibane V.S., Johan L. F. K., Ruan E., Pieter W. J.& Carolina H. P. 2010. Effect of Marine Polyunsaturated Fatty Acids on Biofilm Formation of Candida albicans and Candida dubliniensis. *Mar. Drugs.* **8**: 2597-2604.
- Valix M., Usai F., & Malik R. 2001. Fungal Bioleaching of Low Grade Laterite Ores. *Miner Eng.* **14** (2):197–203
- Velyan, R. 2009. *Pengaruh Tiga Cara Pengolahan Tanah Tambak terhadap Pertumbuhan Udang Vaname (Litopenaeus vannamei)*. Program Studi Teknologi dan Manajemen Akuakultur Departemen Budidaya Perairan Fakultas Perikanan dan Ilmu Kelautan Institut Pertanian Bogor.
- Wang, W, Shao Z., Liu Y., & Wang G. 2009. Removal of Multi-Heavy Metals Using Biogenic Manganese Oxides Generated by a Deep Sea Sedimentary Bacterium – Brachybacterium sp. Strain Mn32. *Microbiology.* **155**(6):1986–1996
- Wijeyekoon, S., Mino T., Satoh H., & Matsuo T. (2004). Effects of substrate loading rate on biofilm structure. *Water Res.*, **38**:2479–2488.
- Willey, J.M., Sherwood L.M., and Woolverton C.J. 2008. *Prescott, Harley and Klien's Microbiology*. Seventh Edition. McGraw-Hill. New York.
- Wilson, L. G., Tadashi A., & Robert S. B. Yeast Sulfate-reducing System. *The Journal of Biological Chemistry.* **236** : 1822-1829.
- Wyk, V. P., and Scarpa J. 1999. *Water Quality Requirements and Management. Chapter 8 in Farming Marine Shrimp in Recirculating Freshwater Systems*. Prepared by Peter Van Wyk, Megan Davis-Hodgkins, Rolland Laramore, Kevan L. Main, Joe Mountain, John Scarpa. Florida Department of Agriculture and Consumers Services. Harbor Branch Oceanographic Institution.
- Xin, B, Jiang W., Li X. & Wang Y. 2012. Analysis of Reasons for Decline of Bioleaching Efficiency of Spent Zn–Mn Batteries at High Pulp Densities and Exploration Measure for Improving Performance. *Bioresour Technol.* **112**:186–192.
- Xin, B., Chen B., & Duan L. 2011. Extraction of Manganese from Electrolytic Manganese residue by Bioleaching. *Bioresour Technol.* **102**(2):1683–1687.
- Yusron, M., Lay B.W., Fauzi A.M., dan Santosa D.A. 2009. Isolasi dan Identifikasi Bakteri Pereduksi Sulfat Pada Area Pertambangan Batu Bara Muara Enim, Sumatera Selatan. *Desertasi*. Sekolah Pasca Sarjana. Institut Pertanian Bogor.