



## Daftar Pustaka

- Alfa. M.I, Adie. D.B., Igboro. S.B., Oranusi. U.S., Dahunsi. S.O., Akali. D.M., 2014, Assessment of biofertilizer quality and health implications of anaerobic digestion effluent of cow dung and chicken droppings, *Renewable Energy*.63 : 681-686
- Al Seadi, T., 2008. Biogas Handbook. Esbjerg :University of Southern Denmark Esbjerg. PP 1-30.
- Anonimous. 2011. Peraturan Menteri Pertanian Republik Indonesia 70/Permentan/SR.140/10/2011 tentang Pupuk Organik, Pupuk Hayati Dan Pemberah Tanah. Kementerian Pertanian Republik Indonesia. Jakarta. PP 1 -18.
- Anonimous. 2014. Peraturan Menteri Lingkungan Hidup Republik Indonesia Nomor 5 Tahun 2014 Tentang Baku Mutu Air Limbah. Kementerian Lingkungan Hidup Republik Indonesia. Jakarta. PP 1 – 47.
- Bonten, LTC., Zwart, KB., Rietra RPJJ., Postma R.and de Haas MJG. 2014. Bio-slurry as fertilizer; Is bio-slurry from household digesters a better fertilizer than manure? A literature review. Wageningen, Alterra Wageningen UR (University & Research centre), *Alterra report* 2519. 46 PP. 2.
- Botheju. D, Svalheim. Ø, Bakke. R.2010, Digestate Nitrification for Nutrient Recovery. *The Open Waste Management Journal*. 3 :1-12
- Boudsocq. S., Niboyet. A., Lata, J. C., Raynaud. X., Loeuille. N., Mathieu. J., Blouin M.,Abbadie. L., and Barot. S., 2012, Plant Preference for Ammonium versus Nitrate: A Neglected Determinant of Ecosystem Functioning, no. 1 *The American Naturalist*. Vol. 180, PP 60-69.
- Dahiya, A.K., Vasudevan, P., 1986. Biogas Plant Slurry as an alternative to chemical fertilizers. *Biomass & Bioenergy* 9 : 67-74.
- De Baire, L., 1999. Anaerobic Digestion of Solid Waste: State of the Art, Water, Science Technology. 41: 283-290
- De Groot, L., Bogdanski, A., 2013. Bioslurry = Brown Gold? A review of scientific literature on the coproduct of biogas production, FAO, Rome, Italy.
- De la Fuente, C., Alburquerque, J.A., Clemente, R., Bernal, M.P., 2013. Soil C and N mineralisation and agricultural value of the products of an anaerobic digestion system. *Biology and Fertility of Soils* 49(3) : 313-322.
- Faitfull. N.T., 2010. Methods in Agricultural Chemical Analysis. CABI Publishing. New York. PP 84-87.
- Feng. H., Qu. G., Ning. P., Xiong. X., Jia. L., Shi. Y., Zhang. J., 2011. The Resource Utilization of Anaerobic Fermentation Residue. *Procedia Environmental Sciences*.11 : 1092 – 1099.
- Fülek, G., Benedek, S. 2012. Replenishing Soil Organic Matter With (In :Organic Fertilizers, Editor: Rajeev Pratap Singh). Nova Science Publishers, Inc. PP 48 – 63.
- Garrido, J. M., W. A. J. Van Bentum, M. C. M. Van Loosdrecht, and J. J. Heijnen. 1997. Influence of dissolved oxygen concentration on nitrite accumulation in a biofilm airlift suspension reactor. *Biotechnol. Bioeng*. 53:168-178.



- Gaudy, A., Elizabeth ,G. 1980 . Microbiology for Environmental Scientists and Engineers. McGraw Hill, New York. PP 229 -231.
- Ginestet, P., Audic, J, Urbain. V., Block, J., 1998. Estimation of Nitrifying Bacterial Activities by Measuring Oxygen Uptake in the Presence of the Metabolic Inhibitors Allylthiourea and Azide. *Applied And Environmental Microbiology*, June 1998, P. 2266–2268. Vol 64 No 6
- Gomez, K.A., Gomez, A.A. 1984. Statistical Procedure for Agricultural Research. John Wiley & Sons. New York. PP 8-13.
- Govasmark, E., Stab, J., Holen, B., Hoornstra, D., Nesbakk, T., Salkinoja-Salonen, M.2011. Chemical and microbiological hazards associated with recycling of anaerobic digested residue intended for agricultural use. *Waste Manag*, 31(12), pp. 2577-83.
- Gunnerson, C.G., Stuckey, D.C. 1986. Anaerobic Digestion : Principles and Practices for Biogas System. The World bank Washington, D.C., USA. PP 1 – 89
- Holt J.G., Krieg N.R., Sneath P.H.A., Staley J.T., Williams S.T., 1994. Bergeys Manial of Determinative Bacteriology. A Walters Kluwer Company. New York.
- Scully H., Frost J., Gilkinson S.; Lenehan J. 2007. Research Into Hydrogen Sulphide Gas (H<sub>2</sub>s) Emissions From Stored Slurry Which Has Undergone Low Rate Aeration. *Final Report By Agri-Food And Biosciences Institute (Afbi) And Teagasc Grange Beef Research Centre March 2007. P: 8*
- Ingole, S. Tale, K.,2016. A Review on Role of Physico-Chemical Properties in Soil Quality. *Chem Sci Rev Lett* 2015, 4(13), PP 57 - 66
- Kim, D. J., J. S. Chang, D. I. Lee, D. W. Han, I. K. Yoo, and G. C. Cha. 2003. Nitrification of high strength ammonia wastewater and nitrite accumulation characteristics. *Water Sci. Technol.* 47:45-51.
- Koszel, M., Lorencowicz, E. 2014. Agricultural use of biogas digestate as a replacement fertilizers. *Agriculture and Agricultural Science Procedia*. vol 7 : 119 – 124
- Kouřimská L., Pouštková I., Babička L., 2012. The use of digestate as a replacement of mineral fertilizers for vegetables growing. *Scientia Agriculturae Bohemica* 43 (4), PP 121 – 126.
- Kupper, T., Burge, D., Bachmann, H.J., Gusewell, S., Mayer, J.2014. Heavy metals in source-separated compost and digestates. *Waste Manag*, 34(5), PP. 867-874
- Limam, I., Mezni, M., Guenne, A., Madigou, C., Driss, M.R., Bouchez, T., Mazeas, L. 2013. Evaluation of biodegradability of phenol and bisphenol A during mesophilic and thermophilic municipal solid waste anaerobic digestion using <sup>13</sup>C-labeled contaminants. *Chemosphere*, 90(2), PP. 512-520.
- Madigan M.T., Martinko J.M., Stahl D.A., Clark D.P. 2012. Brock Biology of Microorganism. 13th ed. San Francisco: Pearson. PP. 140-141
- Madsen. M, Nielsen. J.B.H, Esbensen. K.H., 2011, Monitoring of anaerobic digestion processes: A review perspective, *Renewable and Sustainable Energy Reviews*, Volume 15, Issue 6 Pages 3141-3155
- Maier; R., Pepper; I., L, Gerba; Charles P. 2000. Environmental Microbiology. San Diego : Academic Press. PP 387 – 419.



- Medhi K., Singhal A., Chauhan D.K., Thakur I.S., 2017 . Investigating the nitrification and denitrification kinetics under aerobic and anaerobic conditions by *Paracoccus denitrificans* ISTOD1. *Bioresource Technology* 242 :334–343
- Oğuz. M.T., 2005. Investigation Of Nitrifying Bacterial Activities By Monitoring Nitrite Oxidation, Nitrate Formation And Carbon Dioxide Fixation During Activated Sludge Treatment In The Presence Of Metabolic Inhibitors Allylthiourea And Azide. *Erciyes University Science Institute Journal:* 21 (1-2), 154-165.
- Pagliari P.H., Waldrip H., 2016. Applied and Environmental Chemistry of Animal Manure: A Review. *Pedosphere* 26(6): 779–816,
- Patnaik, P. 2010. Handbook of Environmental Analysis. Second (2<sup>nd</sup>) edition. CRC Press. Boca Raton FL. Chapter 42. PP 168 – 172.
- Pelczar, Jr. Michael J, Chan, E.C.S., Krieg, Noel R., 1988. Microbiology (Fifth Edition). Mc Graw Hill Book Company. New York.
- Rao; N.S.S., 1994. Mikroorganisme Tanah dan Pertumbuhan Tanaman (Terjemahan). Jakarta : UI Press.PP 241 – 248.
- Rong. H, Wang. J, Zhang. C, Gao. G., 2015. Quantitative Analysis of the Composition and Abundance of Nitrifying Bacteria on Simultaneous Nitrification and Denitrificationin SBBR. Research & Reviews: *Journal of Microbiology and Biotechnology*. Volume 4 - Issue 4 . PP 15 – 22.
- Talaro. K.P., Talaro. A., 2006. Foundation in Microbiology (11th edition). McGraw-Hill Science. New York. PP 67 – 71.
- Wang. L, Macko. S. A., 2011, Constrained Preferences In Nitrogen Uptake Across Plant Species And Environmentsp *Plant, Cell And Environment* (2011) 34, 525 -534
- Widodo, T.W., Agung, H., 2005. Development of Biogas Processing for Small Scale Cattle Farm in Indonesia.Conference Proceeding: International Seminar on Biogas Technology for poverty Reduction and Sustainable Development . Beijing, October 17-20,2005. pp. 255-261.
- Yadav, A., Gupta, R. dan Garg, V.K. 2013. Organic manure production from cow dung and biogas plant slurry by vermicomposting under field condition. *Int J Recycl Org Waste Agricult.* Vol 2: 21. <https://doi.org/10.1186/2251-7715-2-21>