



LAPORAN HASIL PENELITIAN

“Pengaruh Laju Alir Udara dan Waktu Oksidasi Terhadap Rasio C/N Pada Pembuatan Pupuk Padat dari Kotoran Kambing dengan Proses Fermentasi Aerobik”

DAFTAR PUSTAKA

- astutik, D. Dkk. (2020) ‘The Utilization Of Effective Microorganism 4 (Em4) On Growth Of Oil Palm Seedling In Pre Nursery’, *International Journal Of Multi Discipline Science (Ij-Mds)*, 3(2), P. 39. Available At: <https://doi.org/10.26737/Ij-Mds.V3i2.2117>.
- Bachtiar, B. Dkk. (2019) ‘Analisis Kandungan Hara Kompos Johar Cassia Siamea Dengan Penambahan Aktivator Promi Analysis Of The Nutrient Content Of Compost Cassia Siamea With Addition Of Activator Promi’, *Bioma : Jurnal Biologi Makassar*, 4(1), P. 68.
- Biosci, I.J. Dkk. (2023) ‘Differences In C / N Ratio Of Organic Waste Compost Due To Variation Of Aeration Rate And Composting Time Using Aerated Static Pile Method In Cahaya Kencana Landfill , Banjar District , South Kalimantan’, *International Journal Of Biosciences*, 23(2), Pp. 183–187. Available At: <https://doi.org/10.12692/Ijb/23.2.184-187>.
- Bsni (2004) ‘Spesifikasi Kompos Dari Sampah Organik Domestik’, (Sni 19-7030-2004).
- Bsni (2024) ‘Pupuk Organik Padat’, (Sni 7763:2024).
- Chen, Y., Cheng, J.J. And Creamer, K.S. (2008) ‘Inhibition Of Anaerobic Digestion Process : A Review’, *Bioresource Technology*, 99, Pp. 4044–4064. Available At: <https://doi.org/10.1016/j.biortech.2007.01.057>.
- Cheng, J. Dkk. (2023) Intermittent Aeration To Reduce Gaseous Emission And Advance Humification In Food Waste Digestate Composting: Performance And Mechanisms. *Bioresource Technology*. [Online] 371.
- Destiasari, A., Sumiyati, S. And Istirokhatun, T. (2024) ‘Review Metode Kompos Aerob: Windrow, Takakura Dan Composter Bag’, *Jurnal Ilmu Lingkungan*, 22(2), Pp. 355–364. Available At: <https://doi.org/10.14710/Jil.22.2.355-364>.
- Dewi, C., Mustika Mirasari, D. And Irawati, W. (2007) ‘Pembuatan Kompos Secara



LAPORAN HASIL PENELITIAN

“Pengaruh Laju Alir Udara dan Waktu Oksidasi Terhadap Rasio C/N Pada Pembuatan Pupuk Padat dari Kotoran Kambing dengan Proses Fermentasi Aerobik”

- Aerob Dengan Bulking Agent Sekam Padi’, *Widya Teknik*, 6(1), Pp. 21–31.
- Dyah Siswati, N. Dkk. (2009) ‘Kajian Penambahan Effective Microorganisms (Em 4) Pada Proses Dekomposisi Limbah Padat Industri Kertas’, *Buana Sains*, 9(1), Pp. 63–68.
- Ghaly, A.E. And Macdonald, K.N. (2012) ‘Drying Of Poultry Manure For Use As Animal Feed’, *American Journal Of Agricultural And Biological Science*, 7(3), Pp. 239–254. Available At: <https://doi.org/10.3844/Ajabssp.2012.239.254>.
- Ghanney, P. Dkk. (2023) ‘Moisture-Induced Effects On Lignocellulosic And Humification Fractions In Aerobically Composted Straw And Manure’, *Fermentation*, Pp. 1–17. Available At: <https://doi.org/10.3390/Fermentation9060551>.
- Gulo, M., Amrul, A. And Zamriyetti (2024) ‘Efektivitas Pupuk Kotoran Kambing Dan Rendaman Insang Ikan Terhadap Pertumbuhan Bawang Merah’, *Agrohita Jurnal Agroteknologi Fakultas Pertanian Universitas Muhammadiyah Tapanuli Selatan*, 9(3), Pp. 227–236. Available At: <https://doi.org/10.31604/Jap.V9i3.17969>.
- Harjanti, W.S. Dkk. (2016) ‘Analisis Risiko Kesehatan Lingkungan Paparan Gas Amonia (Nh 3) Pada Pemulung Di Tpa Jatibarang, Semarang’, *Jurnal Kesehatan Masyarakat*, 4(3), Pp. 2356–3346. Available At: <http://ejournal-s1.undip.ac.id/index.php/jkm>.
- Klein, D. (2017) ‘Organic Chemistry’, In. United States Of America: Wiley, Pp. 1–1104. Available At: <https://doi.org/10.4324/9781410612465-8>.
- Kusuma, M.E. (2012) ‘Pengaruh Beberapa Jenis Pupuk Kandang Terhadap Kualitas Bokashi’, *Ilmu Hewani Tropika*, 1(2), Pp. 41–46.
- Ligayanti, T. (2024) ‘Pupuk Organik Padat’. Badan Standarisasi Nasional, Pp. 1–22.
- Luthfi, S.A.C.L., Fitria, R. And Hindratiningrum, N. (2021) ‘Pemanfaatan Kotoran Kambing Sebagai Bahan Bakar Renewable (Gas Bio) Untuk Menghindari Pencemaran Lingkungan Di Desa Binangun Kecamatan Banyumas



LAPORAN HASIL PENELITIAN

“Pengaruh Laju Alir Udara dan Waktu Oksidasi Terhadap Rasio C/N Pada Pembuatan Pupuk Padat dari Kotoran Kambing dengan Proses Fermentasi Aerobik”

- Kabupaten Banyumas’, *Bulletin Of Applied Animal Research*, 3(2), Pp. 67–70. Available At: <https://doi.org/10.36423/Baar.V3i2.808>.
- Manyapu, V. Dkk. (2017) ‘In-Vessel Composting: A Rapid Technology For Conversion Of Biowaste Into Compost’, *Open Access International Journal Of Science & Engineering*, 2(9), Pp. 58–63.
- Maula, I.M. (2023) ‘Pengelolaan Limbah Pertanian: Pemanfaatan Kotoran Kambing Sebagai Pupuk Organik’, *Action Research Literate*, 1(1), Pp. 1–7.
- Meena, A.L., Karwal, M. And Dutta, D. (2021) ‘Composting: Phases And Factors Responsible For Efficient And Improved Composting Network Project On Organic Farming View Project’, *Agriculture And Food:E-Newsletter*, 3(01), Pp. 1–7. Available At: <https://doi.org/10.13140/Rg.2.2.13546.95689>.
- Muhammad, T., Badruz, Z. And Purwono (2017) ‘Pengaruh Penambahan Pupuk Kotoran Kambing Terhadap Hasil Pengomposan Daun Kering Di Tpst Undip’, *Jurnal Teknik Lingkungan*, 6(3), Pp. 1–12. Available At: <http://ejournal-s1.undip.ac.id/index.php/tlingkungan>.
- Nurkholis, Nusantara, S. And Awaludin, A. (2019) ‘Pembuatan Pupuk Organik Padat (Pop) Berbasis Bahan Kotoran’, *Ritekdikti Politeknik Negeri Jember*, Pp. 168–175.
- Pakpahan, H. (2023) ‘Pembuatan Pupuk Kompos Dari Kotoran Kambing’, *Jurnal Dirosah Islamiyah*, 5(3), Pp. 864–869. Available At: <https://doi.org/10.17467/Jdi.V5i3.4322>.
- Peng, L. Dkk. (2023) ‘Environmental Technology & Innovation Effect Of Aeration Rate , Aeration Pattern , And Turning Frequency On Maturity And Gaseous Emissions During Kitchen Waste Composting’, *Environmental Technology & Innovation*, 29, P. 102997. Available At: <https://doi.org/10.1016/J.Eti.2022.102997>.
- Popescu, I., Covaliu-Mierl, C.I. And Niculescu, V. (2025) ‘Home Composting : A Sustainable Solution At Community Level’, *Sustainability*, Pp. 1–20. Available At: <https://doi.org/10.3390/Su17083368>.
- Rahayu, T.B., Simanjuntak, B.H. And Suprihati, - (2016) ‘Pemberian Kotoran
-



LAPORAN HASIL PENELITIAN

“Pengaruh Laju Alir Udara dan Waktu Oksidasi Terhadap Rasio C/N Pada Pembuatan Pupuk Padat dari Kotoran Kambing dengan Proses Fermentasi Aerobik”

- Kambing Terhadap Pertumbuhan Dan Hasil Wortel (*Daucus Carota*) Dan Bawang Daun (*Allium Fistulosum L.*) Dengan Budidaya Tumpangsari’, *Agric*, 26(1), P. 52. Available At: <https://doi.org/10.24246/Agric.2014.V26.I1.P52-60>.
- Salem Alnaass, N. *Dkk.* (2021) ‘Use Of Fertilizers Or Importance Of Fertilizers In Agriculture’, ~ 52 ~ *International Journal Of Advanced Academic Studies*, 3(2), Pp. 52–57. Available At: www.allstudyjournal.com.
- Shalehah, R. *Dkk.* (2024) ‘Tinjauan Penanganan Limbah Ternak Kambing Di Rw 06 Desa Cigintung Kecamatan Cisitu Kabupaten Sumedang Review Of Goat Livestock Waste Management In Rw 06 Cigintung Village Cisitu District Sumedang Regency’, *Environmental Health And Safety Journal*, 1(2), Pp. 114–125.
- Stanbury, P., Whitaker, A. And Hall, S. (1995) *Principle Of Fermentation Technology*. Second. Burlington Ma: Butterworth-Heinemann.
- Sugito And Khoirin, L. (2024) ‘Pemanfaatan Kotoran Kambing Sebagai Pupuk Organik Untuk Meningkatkan Kebersihan Lingkungan Di Desa Mojosari’, *Jurnal Pengabdian Dan Pemberdayaan Masyarakat*, 2(2), Pp. 117–129. Available At: <https://ejournal.iaingawi.ac.id/index.php/abdiandaya>.
- Suherman, Nurhapsa And Irmayani (2018) ‘Panduan Praktis Pembuatan Pupuk Organik Sederhana’, In. Pare-Pare: Umpar Press, Pp. 1–28.
- Tang, R. *Dkk.* (2023) ‘Effect Of Moisture Content , Aeration Rate , And C / N On Maturity And Gaseous Emissions During Kitchen Waste Rapid Composting’, *Journal Of Environmental Management*, 326(November 2022), P. 116662. Available At: <https://doi.org/10.1016/J.Jenvman.2022.116662>.
- Trivana, L. *Dkk.* (2017) ‘Optimalisasi Waktu Pengomposan Dan Kualitas Pupuk Kandang Dari Kotoran Kambing Dan Debu Sabut Kelapa Dengan Bioaktivator Promi Dan Orgadec Time Optimization Of The Composting And Quality Of Organic Fertilizer Based On Goat Manure And Coconut Coir Dust Usi’, *Jurnal Sain Veteriner*, 35(1), Pp. 136–144.
-



LAPORAN HASIL PENELITIAN

“Pengaruh Laju Alir Udara dan Waktu Oksidasi Terhadap Rasio C/N Pada Pembuatan Pupuk Padat dari Kotoran Kambing dengan Proses Fermentasi Aerobik”

- Wang, F. *Dkk.* (2024) ‘Science Of The Total Environment Pilot-Scale Membrane-Covered Composting Of Food Waste : Initial Moisture , Mature Compost Addition , Aeration Time And Rate’, 926(March), P. 171797. Available At: <https://doi.org/10.1016/j.scitotenv.2024.171797>.
- Wang, Y. *Dkk.* (2021) ‘Bioresource Technology Aeration Rate Improves The Compost Quality Of Food Waste And Promotes The Decomposition Of Toxic Materials In Leachate By Changing The Bacterial Community’, *Bioresource Technology*, 340(June), P. 125716. Available At: <https://doi.org/10.1016/j.biortech.2021.125716>.
- Widianti, E. (2023) *Proses Pembuatan Pupuk Organik Padat (Pop) Kotoran Kambing Dengan Metode Fermentasi Di Desa Giriasih, Purwosari Gunung Kidul, Jurnal Pengabdian Kepada Masyarakat*. Available At: <https://jurnal.stejogja.ac.id/index.php/ibsejpm>.
- Widowati, L. *Dkk.* (2022) *Pupuk Organik*. Edited By I. Muttaqien And E. Kustanti. Bogor: Kementrian Oertanian Republik Indonesia.
- Xiong, Z. *Dkk.* (2017) ‘Effect Of Aeration Rates On The Composting Processes And Nitrogen Loss During Composting’, *Applied Environmental Biotechnology*, 2(1), Pp. 1–8. Available At: <https://doi.org/10.26789/Aeb.2017.01.003>.
- Zeng, J. *Dkk.* (2022) ‘Bioresource Technology Oxygen Dynamics , Organic Matter Degradation And Main Gas Emissions During Pig Manure Composting : Effect Of Intermittent Aeration’, *Bioresource Technology Journal*, 361(July), P. 127697. Available At: <https://doi.org/10.1016/j.biortech.2022.127697>.
- Zhang, J. *Dkk.* (2020) ‘Variation And Evolution Of C:N Ratio Among Different Organs Enable Plants To Adapt To N-Limited Environments’, *Global Change Biology*, 26(4), Pp. 2534–2543. Available At: <https://doi.org/10.1111/Gcb.14973>.
- Zhao, Y. *Dkk.* (2022) ‘Bioresource Technology Interval Aeration Improves Degradation And Humification By Enhancing Microbial Interactions In The



LAPORAN HASIL PENELITIAN

“Pengaruh Laju Alir Udara dan Waktu Oksidasi Terhadap Rasio C/N Pada Pembuatan Pupuk Padat dari Kotoran Kambing dengan Proses Fermentasi Aerobik”

Composting Process’, *Bioresource Technology Journal*, 358(April), P. 127296. Available At:
<https://doi.org/10.1016/j.biortech.2022.127296>.