

DAFTAR PUSTAKA

- Badan Standarisasi Nasional , SNI 3242:2008. Pengelolaan Sampah Pemukiman. 2008
- Banjo AD, Lawal OA, Olusole OO. 2005. Bacteria associated with *Hermetia illucens* (Linnaeus) diptera: Stratiomyidae. *Asian J Microbiol Biotechnol Environ Sci Pap*. 7:351-354.
- Damanhuri, E. 2010. Diktat Pengolahan Sampah. Jurusan Teknik Lingkungan FTSL ITB.
- Darmawan, M. 2014. Kajian Pengolahan Sampah di TPST Mulyoagung Bersatu, Kecamatan Dau, Kabupaten Malang. Laporan Tugas Akhir Jurusan Teknik Lingkungan FTSP ITS.
- Diener, S., Zurburgg, C., & Tockner, K. 2009. Conversion Of Organic Material By Black Soldier Fly Larvae : Establishing Optimal Feeding Rates. *Waste Management and Research*. Volume 27. Halaman 603 – 610.
- Diener, S., Nandayure, M, S, S., Floria, R, G., Zurburgg, C., & Tockner, K. 2011. Biological Treatment of Municipal Organic Waste Using Black Soldier Fly Larvae. *Waste Biomass Valor*. Nomor 2. Halaman 357 – 363.
- Diener, S., Zurburgg, C., Floria, R, G., Nguyen, D, H., Morel, A., Tockner, K., & Kottaep, M. 2011. Black Soldier Larvae For Organic Waste Treatment – Prospect and Constraints. *Proceedings Of The WasteSafe 2011- 2nd International Conference On Solid Waste Management In The Developing Country*. Halaman 1 – 8.
- Doraja, P, H., Shovitri, M., & Kuswyasari, N, D. 2012. Biodegradasi Limbah Domestik Dengan Menggunakan Inokulum Alami Dari Tangki Septik. *Jurnal Sains & Seni ITS*. Volume 1 Nomor 1. Halaman 44 – 47.
- Fahmi, M, R., Hem, S., & Subamia, I, W. 2007. Potensi Maggot Sebagai Salah Satu Sumber Protein Pakan Ikan. *Seminar Nasional Hari Pangan Sedunia XXVII*. Halaman 125 – 130.
- Fahmi, M, R. 2015. Optimalisasi Proses Biokonversi Dengan Menggunakan MiniLarva *Hermetica illucens* Untuk Memenuhi Kebutuhan Pakan Ikan. *PROSEMNAS MASY BIODEV INDON*. Volume 1. No. 1. Halaman 139-144.
- Falicia, A., Katayane. B., Bagau., Wolayan,F.R., Imbar, M.R. 2014. Produksi dan Kandungan Protein Maggot (*Hermetia illucens*) Dengan Menggunakan Media Tumbuh Berbeda. *Jurnal ZooteK*. Vol 34, edisi khusus, hal 27-36
- Guerero, L, A., Maas, G., & Hogland, W. 2013. Solid Waste Management Challenges For Cities In Developing Countries- Review.*Waste Management Journal*. Volume 33. Hal 220 – 232.

- Gujarati, G, R., & Pejaver, M, K. 2013. Occurrence of Black Soldier Fly *Hermetia illucens* (Diptera: Stratiomyidae) in Biocompost. *Research Journal of Recent Sciences*. Volume 2 (4). Halaman 65 – 66.
- Hardjo, S., Indrasti, N.S., Bantacut, T., 1989. *Biokonversi: Pemanfaatan Limbah Industri Pertanian*. Bahan Pengajaran. Penelaah: S. Fardiaz. Departemen Pendidikan dan Kebudayaan, Direktorat Jenderal Pendidikan Tinggi, Pusat Antar Universitas Pangan dan Gizi, IPB, Bogor.
- Jarret, P. and Vujanovic, P. 2016. Survey Ekonomi OECD INDONESIA. Indonesia. OECD Economic Surveys.
- Kardana, D., Haetami, K., Subhan, U., 2012. Efektivitas penambahan tepung maggot dalam pakan komersil terhadap pertumbuhan benih ikan bawal air tawar (*Colossoma macroponum*). *Jurnal Perikanan dan Kelautan*. Vol 3, No 4. Hal 177-184
- Katayane, F, A., Bagau, B., Wolayan, F, R., & Imbar, M, R. 2014. Produksi dan Kandungan Maggot (*Hermetia illucens*) Dengan Media Tumbuh yang Berbeda. *Jurnal Zooteek*. Volume 34. Halaman 27 – 36.
- Kiran, E, U., Trzcinski, A, P., Ng, W, J., & Liu, Y. 2014. Bioconversion Of Food Waste To Energy : A Review. *Journal Fuel*. Halaman 389 – 399.
- Lalander, C, H., Fidjelan, J., Diener, S., Eriksson, S., & Vinneras, B. 2014. High waste-to-Biomass Conversion and Efficient *Salmonella* spp. Reduction using Black Soldier Fly For Waste Recycling. *Agron Suistain Development*. Volume 36. Halaman 261 – 271.
- Li, Q., Zheng, L., Cai, H., Garza, E., Yu, Z., Zhou, S., 2011. From organic waste to biodiesel: Black soldier fly, *Hermetia illucens*, makes it feasible. *Journal Fuel* 90. 1545–1548
- Li, S., Ji, H., Zhang, B., Tian, J., Zhou, J., Yu, H. 2016. Influence of black soldier fly (*Hermetia illucens*) larvae oil on growth performance, body composition, tissue fatty acid composition and lipid deposition in juvenile Jian carp (*Cyprinus carpio* var. Jian). *Journal Aquaculture* 465. 43-52.
- Maryani, S. Rahadi, B, & Lusiana, N. 2012. Kajian Pengelolaan Timbulan Sampah Ramah Lingkungan di Kabupaten Ponorogo. Prosiding Seminar Nasional Waste Management I: “Waste Management for Sustainable Urban Development”. Surabaya.
- Mangunwardoyo, W., Aulia., & Hem, S. 2011. Penggunaan Bungkil Inti Kelapa Sawit Hasil Biokonversi Sebagai Substrat Pertumbuhan Larva *Hermetia illucens* L (Maggot). *Jurnal Biota*. Volume 16 ISSN 0853 – 8670. Halaman 166 – 172.

- Paz, A, S, P., Carrejo, N, S., & Rodriguez, C, H, G. 2015. Effects Of Larval Density and Feeding Rates on The Bioconversion of Vegetable Waste Using Black Soldier Fly Larvae *Hermetia illucens* (L.). *Waste Biomassa Valor.* Volume 6. Halaman 1059-1065.
- Rachmawati., Buchori, D., Hidayat, P., Hem, S., Fahmi, M.R. 2010. Perkembangan dan Kandungan Nutrisi Larva *Hermetia illucens* (Linnaeus) (Diptera: Stratiomyidae) pada Bungkil Kelapa Sawit. *J. Entomol. Indon.*, Vol. 7, No. 1, 28-41 28
- Rambet, V., Umboh, J, F., Tulung, Y, L, R., & Kowel, Y, H, S. 2016. Kecernaan Protein dan Energi Ransum Boiler Yang Menggunakan Tepung Maggot (*Hermetia illucens*) Sebagai Pengganti Pakan Ikan. *Jurnal Zootek.* Nomor 1 Volume 36. Halaman 13 – 22.
- Ritika, P & Sharma, S., P., R. 2015. Study On Occurrence The Black Soldier Fly Larvae in Composting of Kitchen Waste. *International Journal Of Research in Biosciences.* Volume 4. Issue 4. Halaman 38 – 45.
- Saragi, E.S., Bagastyo, A.Y., 2015. Reduction of Organic Solid Waste by Black Soldier Fly (*Hermetia illucens*) Larvae. *The 5th Environmental Technology and Management Conference “Green Technology towards Sustainable Environment” November 23 - 24, 2015*, Bandung, Indonesia.
- Shekdar, A, V. 2009. Sustainable Solid Waste Management: An Intergrated Approach For Asian Countries. *Waste Management Journal.* Volume 29. Hal 1438 – 1448.
- Silmina, D., Edriani, G., & Putri, M. 2011. Efektivitas Berbagai Media Budidaya Terhadap Pertumbuhan Maggot *Hermetia illucens*. Institut Pertanian Bogor.
- Tan, S, T., Ho, W, S., Hashim, H., Lee, C, T., Taib, M, R., & Ho, C, S. 2015. Energy, Economic and Environmental (3E) analysis of waste-toenergy (WTE) Strategies For Municipal Solid Waste (MSW) Management in Malaysia. *Journal of Energy Conversion and Management.* Volume 102. Halaman 111 - 120.
- Tchobanoglous, G., Theisen, H., & Vigil, S., 1993. *Integrated Solid Waste Management (Engineering Principles and Management Issue)*. Singapore. McGraw-Hill, Inc.
- Warburton K, Hallman V. 2002. Processing of material by the soldier fly, *Hermetia illucens*. In: Warburton K, McGarry UP, Ramage D. 2002. *Integrated Biosystem for Sustainable development. RIRDC Publication.* Queensland.
- Widjastuti, T., Wiradimadja, R., & Rusmana, D. 2014. The Effect of Substitution of Fish Meal By Black Soldier Fly (*Hermetia illucens*) Maggot Meal In The Diet On Production Performance Of Quail (*Coturnix coturnix japonica*). *Scientific Papers Series D Animal Science.* Volume 57. Halaman 125 – 129.



UNIVERSITAS
GADJAH MADA

BIOKONVERSI LIMBAH DOMESTIK DENGAN MENGGUNAKAN LARVA BLACK SOLDIER FLY (HERMETIA ILLUCENS)

MAHFUDL SIDIQ M, Ahmad Tawfiequrrahman Y,S.T.,M.Eng.,D.Eng.;Ir. Agus Prasetya, M.Eng.Sc., Ph.D

Universitas Gadjah Mada, 2017 | Diunduh dari <http://etd.repository.ugm.ac.id/>

- Yu G, Cheng P, Chen Y, Li Y, Yang Z, Chen Y, Tomberlin JK. 2011. Inoculating poultry manure with companion bacteria influences growth and development of Black Soldier Fly (Diptera: Stratiomyidae) larvae. *Environ Entomol.* 40:30-35
- Zheng, L., Li, Q., Zhang, J., Yu, Z. 2012. Double the biodiesel yield: Rearing black soldier fly larvae, *Hermetia illucens*, on solid residual fraction of restaurant waste after grease extraction for biodiesel production. *Renewable Energy* 41; 75-79.
- Zubair, A. dan Haeruddin. 2011. Studi Potensi Daur Ulang Sampah di TPA Tamanggapa Kota Makassar. Makassar. Laporan Penelitian Fakultas Teknik. Jurusan Teknik Sipil Fakultas Teknik Universitas Hasanuddin.