

DAFTAR PUSTAKA

- Affiano, I. 2011. Analisis perkembangan histamin tuna (*Thunnus Sp.*) dan bakteri pembentuknya pada beberapa setting standar suhu penyimpanan. *Skripsi*. Institut Pertanian Bogor. Bogor.
- Ahmad, I. 2001. Dietary compensatory feeding in *manduca sexta* (lepidoptera: sphingidae) larvae. *Jurnal Perlindungan Tanaman Indonesia*, Vol. 7, No. 2, 2001: 81–92.
- Amatya, P. 2009. Economics of black soldier fly (*Hermetia illucens*) in dairy waste management. *Thesis*. Tarleton State University. Stephenville Texas. USA
- Anonim ¹. 2017. “Tabel harga komoditas”.
<http://www.kemendag.go.id/id/economic-profile/prices/international-price-table>
diakses pada 8 April 2017
- Anonim ². 2017. “Suku bunga deposito”.
<http://pusatdata.kontan.co.id/>
Diakses pada 12 Mei 2017
- Badan Pusat Statistik. 2016. *Ekspor menurut kelompok komoditi dan negara. Buletin Statistik Perdagangan Luar Negeri*. Badan Pusat Statistik Indonesia
- 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.
- Bappenas. 2014. *Kajian Strategi Pengelolaan Perikanan Berkelanjutan*. Kementerian PPN / Bappenas Direktorat Kelautan dan Perikanan.
- Bezama, A., Valeria, H., Correa, M., Szarka, N., 2012. Evaluation of the environmental impacts of a Cleaner Production Agreement by frozen fish facilities in the Biobío Region, Chile. *J. Clean. Prod.* 26, 95–100.
- Bougatef, A., Balti, R., Haddar, A., Jellouli, K., Souissi, N and Moncef Nasri. 2012. Protein Hydrolysates from Bluefin Tuna (*Thunnus thynnus*) Heads as Influenced by the Extent of Enzymatic Hydrolysis. *Biotechnology and Bioprocess Engineering* 17: 841-852.

- Caruso, D., Devic, E., Subamia, I.W., Talamond, P., Baras, E., 2014. *Technical handbook of domestication and production of diptera black soldier fly (BSF) Hermetia illucens*, Stratiomyidae. IRD-DIVA-ISEM No 2014-038
- Diener, S., Zurbrügg, C. and Tockner, K., 2009. Conversion of organic material by black soldier fly larvae – establishing optimal feeding rates. *Waste Management & Research* 27: 603-610.
- Diener, S., Studt Solano, N.M., Roa Gutiérrez, F., Zurbrugg, C. and Tockner, K., 2011. Biological treatment of municipal organic waste using black soldier fly larvae. *Waste and Biomass Valorization* 2: 357-363.
- Direktorat Jenderal Penguatan Daya Saing Produk Kelautan dan Perikanan. 2015. *Laporan Kinerja Instansi Pemerintah (LAKIP)*. Kementerian Kelautan dan Perikanan Republik Indonesia.
- Dong, S.Z., Chen, Y.F., Huang, Y.H., Feng, D.Y. 2009. Research on feed characteristics of *Bacillus natto*. *Chinese J Anim Nutr*. 21:371-378
- Driemeyer, H. 2016. Evaluation of black soldier fly (*Hermetia illucens*) larvae as an alternative protein source in pig creep diets in relation to production, blood and manure microbiology parameters. *Master Thesis*. Faculty of AgriScience at Stellenbosch University.
- Fagoca, F.H., Santa'ana, L.S., Lara, J.A.F., Mai, A.C.G., Carneiro, D.J., 2015. Restructured products from tilapia industry byproducts: The effects of tapioca starch and washing cycles. *Food and Bioprocess Processing*. 94. 482-488
- Fahmi, M.R., Hem, S., Subamia, I.W., 2007. Potensi Maggot Sebagai Salah Satu Sumber Protein Pakan Ikan. *Prosiding Seminar nasional Hari Pangan Sedunia XXVII*. Balitbang KKP
- Fahmi, M.R., Hem, S., Subamia, I.W. 2009. Potensi Maggot untuk Peningkatan Pertumbuhan dan Status Kesehatan Ikan. *Jurnal Riset Akuakultur* Vol. 4 No. 2, 221-232
- Fahmi, M.R., 2015. Optimalisasi proses biokonversi dengan menggunakan mini-larva *Hermetia illucens* untuk memenuhi kebutuhan pakan ikan. *Pros Sem Nas Masy Biodiv Indon*. Volume 1, Nomor 1. Hal 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.
- Furman D.P., Young R.D. & P.E. Catts (1959). *Hermetia illucens* (Linnaeus) as a factor in the natural control of *Musca domestica* Linnaeus. *Journal of Economic Entomology* 52, 917–921.
- Ginting, S.P. 2012. Prospek Penerapan Teknologi Proses Pakan Berbasis Hasil Samping Industri Perkebunan pada Ruminansia Kecil. *Jurnal Wartazoa*, Vol.22, No.2.
- Gittinger, J. P. 1986. Analisis Ekonomi Proyek Pertanian (Terjemahan). Universitas Indonesia Press, Jakarta.
- Ghaly, A.E., Ramakrishnan, V.V., Brooks, M.S., Budge, S.M., Dave, D., 2013. Fish processing wastes as a potential source of proteins, amino acids and oils: a critical review. *J. Microb. Biochem. Technol.* 5, 107 – 129
- 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.
- Hartoto, A.N. 2011. Budidaya maggot lalat hitam (*Hermetia illucens*) pada limbah sayuran sebagai bahan pakan ikan dengan menggunakan pot biokonversi. *Tesis*. Magister Sistem Teknik. Program Pasca Sarjana. Universitas Gadjah Mada. Yogyakarta
- Hawkinson, C. 2005. *Beneficial Insects in the Landscape: Black Soldier Fly (Hermetia illucens)*. Galveston County Master Gardeners.
- Kantun, W., Mallawa, A., Rapi, N.L., 2014. Struktur Ukuran dan Jumlah Tangkapan Tuna Madidihang *Thunnus albacares* Menurut Waktu Penangkapan dan Kedalaman di Perairan Majene Selat Makasar. *Jurnal Saintek Perikanan*. Vol 9, No 2, Hal 39-48.
- 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

- Kim, W., Bae, S., Park, K., Lee, S., Choi, Y., Han, S., Koh, Y. 2011. Biochemical characterization of digestive enzymes in the black soldier fly, *Hermetia illucens* (Diptera: Stratiomyidae). *Journal of Asia-Pacific Entomology* 14. 11-14
- Loka Penelitian dan Pengembangan Mekanisasi Pengolahan Hasil Perikanan. 2016. *Laporan Tahunan 2016*. Balitbang. Kementerian Kelautan dan Perikanan.
- 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
- Makkar, H.P.S., Tran, G., Heuze, V., Ankreas, P. 2014. State of the art on use of insects as animal feed. *Anim Feed Sci Technol*. 197:1-33.
- Mangunwardoyo W, Aulia, Hem S. 2011. Penggunaan bungkil inti kelapa sawit hasil biokonversi sebagai substrat pertumbuhan larva *Hermetia illucens* L (maggot). *Biota*. 16:166-172
- Mutafela, R.N. 2015. High value organic waste treatment via black soldier fly bioconversion. *Master of Science Thesis*. Royal Institute of Technology. Stockholm
- Myers, H.M., Tomberlin, J.K., Lambert, B.D. and Kattes, D., 2008. Development of black soldier fly (Diptera: Stratiomyidae) larvae fed dairy manure. *Environmental Entomology* 37: 11-15.
- Newton L, Sheppard C, Watson DW, Burtle G, Dove R. 2005. Using the black soldier fly, *Hermetia illucens*, as a value-added tool for the management of swine manure. *Report for The Animal and Poultry waste Management Center*. North Carolina State University Raleigh.
- Nguyen, T.T., Tomberlin, J.K., Vanlaerhoven, S. 2015. Ability of Black Soldier Fly (Diptera: Stratiomyidae) Larvae to Recycle Food Waste. *Environ. Entomol.* 1–5

- Nurhayati, T., Salamah, E., Cholifah., Nugraha, R. 2014. Optimasi proses pembuatan hidrolisat jeroan ikan kakap putih. *JPHPI 2014*, Volume 17 Nomor 1
- Ovissipour, M., Abedian, A., Kenarim., Motamedzadegan, A., Nazari, R.M. 2012. Optimization of Enzymatic Hydrolysis of Visceral Waste Proteins of Yellowfin Tuna (*Thunnus albacares*). *Food Bioprocess Technol.* 5:696–705
- Peranginangin, R., Agusman, Poernomo, A. 2011. Penelitian dan Pengembangan Pengolahan Hasil Samping Industri Perikanan. *Analisis Kebijakan. Pengembangan Industri Pengolahan Hasil Perikanan dan Kelautan.* Balitbang. KKP.
- Peraturan Menteri Kelautan dan Perikanan Republik Indonesia Nomor 45/PERMEN-KP/2015. *Perubahan atas peraturan menteri kelautan dan perikanan republik Indonesia nomor 25/permen-kp/2015 tentang rencana strategis kementerian kelautan dan perikanan tahun 2015-2019.*
- Pudjiastuti, Susi. 2016. *Pidato Penganugerahan Doktor Honoris Causa. Pemberantasan Illegal, Unreported, and Unregulated Fishing : menegakkan kedaulatan dan menjaga keberlanjutan untuk kesejahteraan bangsa Indonesia.* Universitas Diponegoro. Semarang
- Purwaningsih, S., Santoso, J., Garwan, R. 2013. Perubahan fisiko-kimiawi, mikrobiologis dan histamin bakasang ikan cakalang (*katsuwonus pelamis*, lin) selama fermentasi dan penyimpanan. *J. Teknol. dan Industri Pangan Vol. 24 No. 2.*
- Pusat Data dan Informasi. Kementerian Kelautan Perikanan. 2015 *Kelautan dan Perikanan dalam angka 2015.*
- 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
- Retnowati, N. 2011. Kebijakan pemanfaatan limbah hasil perikanan. Disampaikan pada Focus Group Discussion “mengubah limbah perikanan menjadi hasil samping yang bernilai tambah”. *Balai besar penelitian dan pengembangan pengolahan produk dan bioteknologi kelautan dan perikanan. Jakarta. 5 oktober 2011*

- Riyanto, B., Uju., Halimi, S. 2012. Recovery enzim protease dari jeroan ikan tuna dengan teknologi ultrafiltrasi dan reverse osmosis. *JPHPI*, Volume 15 Nomor 2
- Saidi, S and Amar, R.B., 2016. Valorisation of tuna processing waste biomass for recovery of functional and antioxidant peptides using enzymatic hydrolysis and membrane fractionation process. *Journal of Environ Sci Pollut Res.* 23:21070 - 21085.
- 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.
- Sheppard, D.C., Newton, G.L., Thompson, S.A. and Savage, S., 1994. A value-added manure management-system using the black soldier fly. *Bioresource Technology* 50: 275-279.
- Simpson SJ & Simpson CL. 1990. *The mechanism of nutritional compensation by phytophagous insect.* Pp. 111-160. In: *Insect-plant interaction*. Vol.2. CRC press, Florida.
- Slansky, F & Scriber, J.M. 1982. Selected bibliography and summary of quantitative food utilization by immature insects. *Bulletin of the Entomological Society of America*, 28, 43-55
- Surendra, K.C., Olivier, R., Jeffery, K., Tomberlin, Jha, R., Khanal, S.K. 2016. Bioconversion of organic wastes into biodiesel and animal feed via insect farming. *Journal of Renewable Energy*. 98, 197-202.
- Timmins, W.K., A.J. Bellward, J. Stamp & S.J. Reynolds. 1988. Food Intake, Conversion Efficiency, and Feeding Behaviour of Tobacco Hornworm Caterpillars Given Artificial Diet of Varying Nutrient and Water Content. *Physiol. Ent.* 13: 303 – 314.
- Tomberlin JK, Sheppard DC, Joyce JA. 2002. Selected life-history traits of Black Soldier Flies (Diptera: Stratiomyidae) reared on three artificial diets. *Ann Entomol Soc Am.* 95:379-386.
- Tran, G. Gnaedinger, C. Melin, C. 2014. Black soldier Fly Larvae (*Hermetia illucens*). Feedipedia. Org. Melalui: <http://www.feedipedia.org/node.16388>.

- Trilaksani, W. 2011. Isu terkini dan inovasi teknologi pemanfaatan limbah perikanan. Disampaikan pada *Focus Group Discussion “mengubah limbah perikanan menjadi hasil samping yang bernilai tambah”*. Balai besar penelitian dan pengembangan pengolahan produk dan bioteknologi kelautan dan perikanan. Jakarta. 5 oktober 2011
- Tschirner, M and Simon, A. 2015. Influence of different growing substrates and processing on the nutrient composition of black soldier fly larvae destined for animal feed. *Journal of Insects as Food and Feed*, 2015; 1(4): 249-259
- Wardhana, A.H., 2016. Black soldier fly (*Hermetia illucens*) sebagai sumber protein alternatif untuk pakan ternak. *Wartazoa*, vol 26, No. 2. Hal 69-78
- 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*, Vol LVII.
- Widodo, M.S dan Fakhri, M. 2015. Pemanfaatan pakan organik pada budidaya lele dumbo (*Clarias gariepinus*) di Kabupaten Probolinggo. *Journal of Innovation and Applied Technology*. Vol 1. No 2. Hal 159 – 163.
- Word Bank Report. 2013. Fish to 2030; *Prospects for Fisheries and Aquaculture*. Agriculture and Environmental Services Discussion Paper 03. Number 83177-GLB.
- 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.
- Zamani, L., Givianrad, M.H., Ezzatpanah, H., Bakhoda, H. 2015. Determination of nickel and chromium content in serum, emulsion, skin and viscera of Iranian tuna fish. *Indian Journal of Geo-Marine Science*. Vol. 44(9). pp 1409-1414
- 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