



Daftar Pustaka

- Adusumili R & SB Laxmi. 2011. Potential of the system of rice intensification for systemic improvement in rice production and water use: the case of Andhra Pradesh, India. *Paddy Water Environment* 9:89–97.
- Affandi. 2008. *Pemanfaatan urine sapi yang difermentasi sebagai nutrisi tanaman*. Andi Offset. Yogyakarta.
- Agus F, Sulaiman, Suparto & Eviati. 2005. *Petunjuk teknis analisis kimia tanah, tanaman, air dan pupuk*. Balai Penelitian Tanah Departemen Pertanian. Bogor.
- Agustamar & Z Syarif. 2007. Perbandingan metode SRI dengan cara konvensional pada sawah lama dan pengaruhnya terhadap hasil padi. *Dinamika Pertanian* 22 (1):1-7.
- Altieri MA & CI Nicholls. 2003. Soil fertility management and insect pests: harmonizing soil and plant health in agroecosystems. *Soil & Tillage Research* 72: 203–211.
- Altieri MA, LL Schmidt & R Montalba. 1998. Assessing the effects of agroecological soil management practices on broccoli insect pest populations. *Biodynamics* 218: 23–26.
- Amir M. 2002. *Kumbang lembing pemangsa Coccinellidae (Coccinellinae) di Indonesia*. Puslit Biologi LIPI. Bogor.
- Anas I, OP Rupela, TM Thiyagarajan & N Uphoff. 2011. A review of studies on SRI effects on beneficial organisms in rice soil rhizospheres. *Paddy Water Environment* 9:53–64.
- Ancheng L, X Jianming & Y Xiaoe. 1993. Effect of nitrogen (NH₄ NO₃) supply on absorption of ammonium and nitrate by conventional and hybrid rice during reproductive growth. *Plant Nutrition* 54: 537-540.
- Aqueel MA & SR Leather. 2011. Effect of nitrogen fertilizer on the growth and survival of *Rhopalosiphum padi* (L.) and *Sitobion avenae* (F.) (Homoptera: Aphididae) on different wheat cultivars. *Crop Protection* 30: 216-221.
- Austin AD. 1985. The function of spider egg sacs in relation to parasitoids and predators, with special reference to the Australian fauna. *Natural History* 19: 359-376.
- Baehaki SE & D Munawar. 2007. *Identifikasi biotipe wereng cokelat di Jawa, Sumatera dan Sulawesi dan reaksi ketahanan kultivar padi*. Apresiasi Penelitian Padi.



- Baehaki SE & IMJ Mejaya. 2014. Wereng coklat sebagai hama global bernilai ekonomi tinggi dan strategi pengendaliannya. *Iptek Tanaman Pangan* 9 (1):1-12.
- Baehaki SE & IN Widiarta. 2009. *Hama wereng dan cara pengendaliannya pada tanaman padi*. BBPTP. Bogor.
- Baehaki SE. 1985. *Studi perkembangan populasi wereng coklat (N. lugens Stal) asal imigran dan pemencarannya di pertanaman*. Disertasi. IPB. Bogor.
- Barah BC. 2009. Economic and Ecological Benefits of System of Rice Intensification (SRI) in Tamil Nadu. *Agricultural Economics Research Review* 22:209-214.
- Barrion AT & JA Litsinger. 1995. *Riceland spiders of South and Southeast Asia*. IRRI. Philippines.
- Barrion AT. 1999. Guild structure, diversity and relative abundance of spiders in selected non rice habitats and irrigated rice fields in San Juan, Batangas, Philippines. *The Philippine Entomologist* 13(2): 129 - 157.
- Barrion AT. 2015. Leptocorisa rice seed bugs (Hemiptera:Alydidae) in Asia: A review. *The Phillipines Entomologist* 1(29):1-103.
- Barrison J. 2003. *Nutrient-use efficiency and nutrient Uptake in conventional and intensive (SRI) rice cultivation systems in Madagascar*. Thesis. Department of Crop and Soil Sciences, Cornell University, New York.
- Begum MA, M Jahan, MN Bari, MM Hossain & N Afsana. 2002. Potentiality of *Micraspis discolor* (F) as a biocontrol agent of *Nilaparvata lugens* (Stal). *Biology of Science* 2 (9): 630-632.
- Berg HVD & Soehardi. 2000. The influence of the rice bug *Leptocorisa oratorius* on rice yield. *Applied Ecology* 37(6): 959-970.
- Bin D. 2008. *Study on environmental implication of water saving irrigation in Zhanghe Irrigation System*. Wuhan University. China.
- Birkhofer K, A Fliebbach, DH Wise & S Scheu. 2008. Generalist predators in organically and conventionally managed grass-clover fields: implications for conservation biological control. *Annual of Applied Biology* 153: 271–280.
- Bong LJ, KB Neoh, Z Jaal & CY Lee. 2012. Life table of *Paederus fuscipes* (Coleoptera: Staphylinidae). *Medical Entomology* 49: 451-460.
- Bottrell DG & KG Schoenly. 2012. Resurrecting the ghost of green revolutions past: The brown planthopper as a recurring threat to high-yielding rice production in tropical Asia. *Asia-Pacific Entomology* 15: 122–140.
- Bouman BAM & TP Tuong. 2001. Field water management to save and increase its productivity in irrigated lowland rice. *Agriculture Water Management*. 49:11-30.



- Boyer AG, RE Swearingen, MA Blaha, CT Fortson, SK Gremillion, KA Osborn & MD Moran. 2003. Seasonal variation in top-down and bottom-up processes in a grassland arthropod community. *Oecologia* 36:309–316.
- BPS Kulon Progo. 2013. *Kulon Progo dalam angka*. Kabupaten Kulon Progo.
- BPTP Yogyakarta. 2015. *Database keadaan serangan organisme pengganggu tanaman dan pengendaliannya selama tahun 2007-2015*. Yogyakarta.
- Cardinale BJ, MA Palmer & SL Collins. 2002. Species diversity enhances ecosystem functioning through interspecific facilitation. *Nature* 415: 426–429.
- Carvalho C, TP Gareau & M Barbercheck. 2010. *Ground and tiger beetles*. Pennsylvania State University.
- Ceesay M. 2011. An opportunity for increasing factor productivity for rice cultivation in The Gambia through SRI. *Paddy Water Environment* 9:129–135.
- Chaboussou F. 2004. *Healthy crops: a new agricultural revolution*. Jon Anderson Publishers. United Kingdom.
- Chambers AB, N Nicholson & K Smith. 2001. *Managing livestock manures*. Ministry of Agriculture, Fisheries and Food.
- Chapagain T & E Yamaji. 2011. Achieving more with less water: alternate wet and dry irrigation (AWDI) as an alternative to the conventional water management practices in rice farming. *Agricultural Science* 3 (3):3-13.
- Chapagain T & Yamaji E. 2009. The effects of irrigation method, age of seedling and spacing on crop performance productivity and water-wise rice production in Japan. *Paddy Water Environment*: 81–90.
- Chattopadhyay J, N Pal, S Samanta & E Venturino. 2014. *Chaos control via feeding switching in intraguild predation systems*. Dipartimento di Matematica Universit`a di Torino. Italy.
- Chau A & KM Heinz. 2006. Manipulating fertilization: a management tactic against *Frankliniella occidentalis* on potted chrysanthemum. *Entomologia Experimentalis et Applicata* 120(3): 201-209.
- Chau LM & KL Heong. 2005. Effects of organic fertilizers on insect pest and diseases of rice. *Omonrice* 13: 26-33.
- Chaudary S, M Raghuraman & H Kumar. 2014. Seasonal abundance of brown plant hopper *Nilaparvata lugens* in Varanasi region, India. *International journal of current microbiology and applied science* 3(7):1014-1017.
- Cho J & T Oki. 2012. Application of temperature, water stress, CO₂ in rice growth models: a review. *Rice* 5:10.
- Chu HF. 1949. *How to know the immature insects*. Mc Brown Company publ. Dubuque. Iowa.



- Clough Y, A Kruess & T Tschardt. 2007. Organic versus conventional arable farming systems: functional grouping helps understand staphylinid response. *Agriculture, Ecosystems and Environment* 118: 285–290.
- Cornelissen T & P Stiling. 2006a. Does low nutritional quality act as a plant defence? An experimental test of the slow-growth, high-mortality hypothesis. *Ecological entomology* 31: p. 32–40.
- Cornelissen T & P Stiling. 2006b. Responses of different herbivore guilds to nutrient addition and natural enemy exclusion. *Ecoscience* 13 (1): p.66-74.
- Craig CL, M Hsu, D Kaplan & NE Pierce. 1999. A comparison of the composition of silk proteins produced by spiders and insects. *International Journal of Biological Macromolecules* 24:109–118.
- Crombie AC. 1946. Further experiments on insect competition. *Proceedings of the Royal Society B* 133:76-109.
- CSIRO Australia 1991a. *The insects of Australia: a Textbook for students and research workers*. Vol 2. Melbourne University Press. Carlton.
- CSIRO Australia. 1991b. *The Insects of Australia: a textbook for students and research workers*. Vol 1. Melbourne University Press. Carlton.
- Cutler B & DT Jennings. 1992. Habitat segregation by species of *Metaphidippus* (Araneae : Salticidae) in Minnesota. *Arachnology* 20 :88-93.
- David PMM, K Ezhilrani & TM Thiyagarajan. 2005. *Relative abundance of insects in SRI and conventional rice*. *National Symposium on biodiversity and insect pest management*; 3-4, February. Chennai.
- De Datta SK. 1981. *Principle and practice of rice production*. John Wiley & Sons. New York.
- Deckers J, F Nachtergaele & O Spaargaren. 2001. *Vertisols: Genesis properties and soil scape management for sustainable development*. IBSRAM proceeding no.20.
- Denno RF, C Gratton, H Dobel & DI Finke. 2003. Predation risk affects relative strength of top down and bottom-up impacts on insect herbivores. *Ecology* 84(4):1032-1044.
- Denno RF, C Gratton, MA Peterson, GA Langelloto, DL Finke & AF Huberty. 2002. Bottom-up forces mediate natural enemy impact in a phytophagous insect community. *Ecology* 83(5): 1443–1458.
- Denno RF, MS McClure & JR Ott. 1995. Interspecific interactions in phytophagous insects: competition reexamined and resurrected. *Annual Review of Entomology* 40: 297-331.
- Dobermann A & T Fairhurst. 2000. *Rice nutrient disorder and nutrient management*. IRRI. Los Banos.



- Driessen PM & R Dudal. 1989. *Lecture notes on the geography, formation, properties ad use of the major soils of the world*. Agricultural University. Wageningen.
- Dwidjoseputro D. 1991. *Ekologi manusia dengan lingkungannya*. Erlangga. Jakarta.
- Dyck VA & Thomas B. 1979. *The brown planthopper problem. Brown planthopper: Threat to rice production in Asia*. IRRI. Los Banos.
- Edgar, WD. 1970. Prey and predators of the wolf spider *Lycosa lubugris*. *Zoology* 159: 405-411.
- Effendi C. 2011. *Struktur komunitas kumbang kubah (Coleoptera: Coccinellidae) pada ekosistem pertanian organik dan konvensional di Sumatera Barat*. Skripsi. Fakultas Pertanian Universitas Andalas. Padang.
- Eldred BD.2006. Disturbance-mediated trophic interactions and plant performance. *Oecologia* 147(2): 261-271.
- Elnusanti Z. 2014. *Respon enam varietas padi terhadap wereng batang cokelat (Nilaparvata lugens) di Kabupaten Klaten*. Skripsi. FP-UGM. Yogyakarta.
- Fachrista IA, Issukindarsyah, D Rusmawan & HA Dewi. 2012. *Preferensi petani Kabupaten Bangka Selatan terhadap beberapa varietas unggul padi sawah*. Prosiding seminar nasional: Kedaulatan pangan dan energi. FP Universitas Trunojoyo. Madura.
- Fagam WF, E Siemann, C Mitter, RF Denno, AF Huberty, HA Woods & JJ Elser. 2002. Nitrogen in insects: implications for trophic complexity and species diversification. *American naturalist* 160: 784-802.
- Fageria NK, NA Slaton & VC Baligar. 2003. Nutrient management for improving lowland rice productivity and sustainability. *Advances in Agronomy* 80: 63-152.
- Foelix R. 1982. *Biology of Spiders*. Harvard University Press. Cambridge.
- Foth HD. 1995. *Fundamentals of soil science*. Terjemahan. Gadjah Mada University Press. Yogyakarta.
- Fuller RJ, LR Norton, RE Feber, PJ Johnson, DE Chamberlain, AC Joys, F Mathews, RC Stuart, MC Townsend, WJ Manley, MS Wolfe, DW Macdonald & LG Firbank. 2005. Benefits of organic farming to biodiversity vary among taxa. *Biology Letters* 1: 431-434.
- Furstenberg-Hagg J, M Zagrobelny & S Bak. 2013. Plant defense against insect herbivores. *Molecular Sciences* 14: 10242-10297.
- Galway KE. 2005. *The impact of host-plant stress on the performance of two insect biological control agent of broom (Cytisus scoparius)*. Dissertation. Lincoln University.



- Gang YQ, J Ye, SN Yang, JR Fu, JW Ma, WC Sun, LN Jiang, Q Wang & JM Wang. 2013. Effects of nitrogen application level on rice nutrient uptake and ammonia volatilization. *Rice Science* 20(2): 139–147.
- Gao Y, Y Li, X Yang, H Li, Q Shen & S Guo. 2010. Ammonium nutrition increases water absorption in rice seedlings (*Oryza sativa* L.) under water stress. *Plant and Soil* 331(1):193-201.
- Gardiner MM, BW Phillips, CA Smith, C Welty & J Jasinski. 2015. *Natural enemy field guide*. <http://glvwg.ag.ohio-state.edu>.
- Gardner FP, RB Pearce & RL Mitchell. 1991. *Fisiologi tanaman budidaya*. Terjemahan. Jakarta: UI Press.
- Gleick PH. 1993. Water and conflict: fresh water, resources and international security. *International security* 8(1): 79-112.
- Goulet H & JT Huber. 1993. *Hymenoptera of the world: an identification guide to families*. Centre for Land & Biological Resources Research. Ottawa.
- Gratton C & RF Denno. 2003. Seasonal shift from bottom-up to top-down impact in phytophagous insect populations. *Oecologia* 134:487–495.
- Greenstone MH. 1999. Spider predation: How and why we study it. *Arachnology* 27:333-342.
- Gullan PJ & PS Cranston. 2005. *The Insects: An outline of entomology*. 3rd edition. Blackwell publ. United Kingdom.
- Gunawardena NE & MK Bandumathe. 1994. Defensive secretion of rice bug, *Leptocorisa oratorius* Fabricius, (Hemiptera:Coreidae): A unique chemical combination and its toxic, repellent, and alarm properties. Abstract. *Chemical ecology* 19:851–861.
- Gunawardena NE. 1994. Seasonal changes in the chemical composition of the defensive secretion of the rice pest *Leptocorisa oratorius* (Hemiptera: Coreidae). *National science council of Srilanka* 22(3): 239-243.
- Haddad NM, J Haarstas & D Tilman. 2000. The effects of long-term nitrogen loading on grassland insect communities. *Oecologia* 124:73–84
- Hakim N, MY Nyakpa, AM Lubis, SG Nugroho, MR Saul, MA Diha, GB Hong & H Bailey. 1986. *Dasar-dasar ilmu tanah*. Universitas Andalas. Padang.
- Hambäck PA, M Vogt, T Tschirntke, C Thies & G Englund. 2007. Top-down and bottom-up effects on the spatio temporal dynamics of cereal aphids: testing scaling theory for local density. *Oikos* 116: 1995–2006.
- Hamid H. 2009. *Komunitas serangga herbivora penggerek polong legum dan parasitoidnya: Studi kasus di Daerah Palu dan Toro Sulawesi Tengah*. Disertasi. SPS IPB. Bogor.
- Hanafiah KA. 2005. *Dasar-Dasar Ilmu Tanah*. Jakarta. Rajawali Pers.
- Hardke JT. 1914. *Arkansas rice* (ed). University of Arkansas System.



- Hariatik. 2014. Perbandingan unsur NPK pada pupuk organik kotoran sapi dan kotoran ayam dengan pembiakan mikro organisme lokal (MOL). *Prosiding Pendidikan Sains* 1(1).
- Hasegawa K. 1992. *Studies on the behavior and balance of nitrogen in paddy field near lake and its influence on environment especially on the water quality. Summary.* Shiga Agriculture Experiment 17.
- Hattori M & K Sogawa. 2002. Oviposition behaviour of the rice brown planthopper, *Nilaparvata lugens* (Stal) and its electronic monitoring. *Insect Behaviour* 15: 283-293.
- Havlin JL, JD Beaton, SL Tisdale & WL Nelson. 2005. *Soil fertility and nutrient management.* 7th ed. Pearson Prentice Hall. New Jersey.
- Hawk SN & WK Collin. 1993. *Principle of Tobacco Production.* NC State University.
- Heinrichs EA. 1994. *Plant stress-insect interactions.* John Wiley & Sons. New York.
- Henault C, D Cheneby D, K Heurlier, F Garrido, S Perez & JC Germon. 2001. Laboratory kinetics of soil denitrification are useful to discriminate soils with potentially high levels of N₂O emission on the field scale. *Agronomie* 21: 713-723.
- Heong KL, GB Aquino & AT Barrion. 1992. Population dynamics of plant and leafhoppers and their natural enemies in rice ecosystems in the Philippines. *Crop Protection* 11 (4): 371-379.
- Heong KL, PS Teng & K Moody. 1995. Managing Rice Pests with Less Chemicals. *Geojournal* 35 (3): 337-349.
- Heong KI, S Bleih, EG Rubia. 1990. Prey preference of the wolf spider, *Pardosa pseudoannulata* (Boesenberg et Strand). *Population Ecology* 33(2): 179-186.
- Hepperly P, D Lotter, CZ Ulsh, R Seidel & C Reider. 2009. Compost, manure and synthetic fertilizer influences crop yields, soil properties, nitrate leaching, and crop nutrient content. *Compost Science & Utilization* 17(2):117-126.
- Herlinda S, A Rauf, S Sosromarsono, U Kartosuwondo, Siswadi & P Hidayat. 2004. Artropoda predator penghuni ekosistem persawahan di Daerah Cianjur, Jawa Barat. *Entomologi Indonesia* 1(1):9-15.
- Herlinda S, C Wati, Khodijah, H Nunilahwati, D Meidalima & A Mazid. 2010. *Eksplorasi dan identifikasi serangga predator Lipaphis erysimi (Kalt.) (Homoptera: Aphididae) dari ekosistem sayuran dataran rendah dan tinggi Sumatera Selatan.* Makalah Seminar. Palembang 20 Oktober.
- Hickman C, L Roberts, S Keen, A Larson & D Eisenhour. 2011. *Animal Diversity.* 6th ed. McGraw-Hill education. USA.
- Holloway GJ, PW De Jong & M Ottenheim. 1993. The genetic and cost of chemical defense in two-spot ladybird (*Adalia bipunctata* L). *Evolution* 47(4): 1229-1239.



- Holloway GJ, PW de Jong, PM Brakefield & H de Vos. 1991. Chemical defence in ladybird beetles (Coccinellidae) I: Distribution of coccinelline and individual variation in defence in 7-spot ladybirds (*Coccinella septempunctata*). *Chemoecology* 2: 7-14.
- Hosamani V, S Pradeep, Sridhara & CM Kalleshwaraswamy. 2009. Biological studies on paddy earhead bug, *Leptocorisa oratorius* Fabricius (Hemiptera: Alydidae). *Academic Journal of Entomology* 2 (2): 52-55.
- Hunter T & T Caro. 2008. Interspecific competition and predation in American carnivore families. *Ethology Ecology & Evolution* 20: 295-324.
- Iida H, Y Yagawa & Y Anraku. 1990. Essential role for induced Ca^{2+} influx followed by $[Ca^{2+}]$ rise in maintaining viability of yeast cells late in the mating pheromone response pathway. *Biological Chemistry* 265: 13391-13399.
- Inbar M, H Doostdar, D Gerling & RT Mayer. 2001. Induction of systemic acquired resistance in cotton by BTH has a negligible effect on phytophagous insects. *Entomologia Experimentalis et Applicata* 99:65-70.
- International Rice Research Institute. 1982. *Brown planthopper: threat to rice production in Asia*. Los Banos.
- Irawati M, Sugiyarto & W Mudyantini. 2003. Pertumbuhan dan kandungan nitrogen daun tanaman kimpul (*Xanthosoma sagittifolium* Schott.) dengan variasi pemberian air dan pupuk ZA. *Biosmart* 6(2): 130-134.
- Islami T & WH Utomo. 1995. *Hubungan tanah, air dan tanaman*. IKIP Semarang. Semarang.
- Ismunadji M & S Roechan. 1988. *Padi Buku I*. Pusat Penelitian dan Pengembangan Tanaman Pangan. Bogor.
- Jagadish SVK, PQ Craufurd & TR Wheeler. 2007. High temperature stress and spikelet fertility in rice (*Oryza sativa* L.). *Experimental Botany* 58(7): 1627-1635.
- Jahn CG, I Domingo, MLP Almazan & J Pacia. 2004. Effect of rice bug *Leptocorisa oratorius* (Hemiptera: Alydidae) on rice yield, grain quality, and seed viability. *Economic Entomology* 97(6):1923-1927.
- Jervis M & N Kidd. 1996. *Insect natural enemies, practical approaches to their study and evaluation*. Chapman and Hall. London.
- Jiang L, T Dai, D Jiang, W Cao, X Gan & S Wei. 2004. Characterizing physiological N-use efficiency as influenced by nitrogen management in three rice cultivars. *Field Crop Resipatory* 88: 239-250.
- Jipelos, M. J. 1989. *Uptake of nitrogen from urea fertilizer for rice and oil palm in Nutrient management for food crops production in tropical farming system*. Institute for Soil Fertility. The Netherland.



- Josipovic M, V Kovacevic, J Sostaric, H Plavsic & L Liovic. 2006. Influences of irrigation and fertilization on soybean properties and nitrogen leaching. *Cereal Research Communications* 34(1): 513-516.
- Kalshoven LGE. 1981. *The pest of crops in Indonesia*. Ihtiar baru-Van Hoeve. Jakarta.
- Kaplan I & RF Denno. 2007 Interspecific interactions in phytophagous insects revisited: a quantitative assessment of competition theory. *Ecology Letter* 10: 977-994.
- Karindah S. 2011. Predation of five generalist predators on brown planthopper (*Nilaparvata lugens* Stål). *Entomologi Indonesia* 8 (2): 55-62.
- Karthikeyan K, M Christy & ML Sreeshma. 2014. Effect of system of rice cultivation on insect pest incidence in Palakkad District of Kerala. *Biopesticide* 7:122-127.
- Kartohardjono A & J Soejitno. 1987. *Musuh alami wereng cokelat Nilaparvata lugens pada tanaman padi dalam wereng cokelat edisi khusus no. 1*. BPTP Bogor: 43-54.
- Kartohardjono, A dan Trisnaningsih. 2008. *Jenis Serangga Hama Tanaman Pangan dan Musuh Alaminya di K.P. Muara Bogor MT 2007*. BBPTP. Bogor.
- Kasli AS, M Kasim & N Akhir. 2007. Pengaruh pengelolaan air dan fase vegetatif dan generatif terhadap pertumbuhan dan hasil padi sawah. *Jurnal Tanaman Tropika* 10(1):1-9.
- Kassam A, W Stoop & N Uphoff. 2011. Review of SRI modifications in rice crop and water management and research issues for making further improvements in agricultural and water productivity. *Paddy Water Environment* 9:163–180.
- Khodijah, S Herlinda, C Irsan, Y Pujiastuti & R Thalib. 2012. Artropoda predator penghuni ekosistem persawahan lebak dan pasang surut Sumatera Selatan. *Lahan Suboptimal* 1 (1): 57-63.
- Kirk GJD & DR Bouldin. 1991. *Speculations on the operation of the rice root system in relation to nutrient uptake*. in Penning de Vries FWT *et al* (eds): Simulation and systems analysis for rice production. Wageningen.
- Kirk GJD & JL Solivas. 1997. On the extent to which root properties and transport through the soil limit nitrogen uptake by lowland rice. *European Journal of Soil and Science* 48:613–621.
- Kirk GJD. 1994. *Rice roots: nutrient and water use*. Editor. Selected papers from the International Rice Research Conference. International Rice Research Institute. Philippines.
- Krebs CJ. 1999. *Ecological Methodology*, 2nd edition. Addison-Wesley.
- Krebs CJ. 2008. *The Ecological world view*. CSIRO. Australia.



- Kushartanti E, T Suhendrata, Mastur & S Catur. 2011. *Implementasi padi inpari 13 dengan pendekatan pengelolaan tanaman terpadu (PTT), persepsi dan respon petani*. BPTP. Jawa Tengah.
- Kusumawardani PN. 2014. *Pengaruh pemberian kombinasi pupuk organik dan pupuk NPK terhadap efisiensi N padi sawah inceptisol*. Skripsi. FP UGM. Yogyakarta.
- Kyuma K. 2003. *Paddy soil science*. Kyoto Univ.Press. Japan.
- Laba IW. 2001. *Keanekaragaman hayati artropoda dan peranan musuh alami hama utama padi pada ekosistem sawah*. IPB. Bogor.
- Lakshmi P. 2006. *System of Rice Intensification: An emerging alternative*. Wassan-CSA-WWF. Andra Pradesh.
- Lalanthi MWC, WS Dandeniya & U Chandrasiri. 2012. *Do low land rice varieties prefer ammonium or nitrate*. Abstrak. Paradeniya University research. Srilanka.
- Larsson S. 1989. Stressful times for the plant stress-insect performance hypothesis. *Oikos* 56: 277–283
- Lee DG, N Ahsan, SH Lee, KY Kang, JJ Lee & BH Lee. 2007. An approach to identify cold-induced low-abundant proteins in rice leaf. *Comptes Rendus Biologies* 330:215–225.
- Lee JH & ST Kim. 2001. *Use of spider as natural enemies to control rice in Korea*. Seoul National University. Korea.
- Lee KS, KK Jena & KL Heong. 2004. *Advances in rice science*. Proceeding of international rice science conference. Korea.
- Lee MH. 2001. *Low temperature tolerance in rice: The Korean experience*. ACIAR proceeding 101: 109-117.
- Letourneau DK & SG Bothwell. 2008, Comparison of organic and conventional farms: challenging ecologists to make biodiversity functional. *Front. Ecological Environment* 6: 430-438.
- Letourneau DK, Andow DA. 1999. Natural-enemy food webs. *Ecological Application* 9:363-64
- Letourneau DK, JA Jedlicka, SG Bothwell & CR Moreno. 2009. Effects of natural enemy biodiversity on the suppression of arthropod herbivores in terrestrial ecosystems. *Annual Review of Ecology, Evolution, and Systematics* 40: 573-592.
- Letourneau DK. 1987. The enemies hypothesis: tritrophic interactions and vegetational diversity in tropical agroecosystems. *Ecology* 68:1616-22
- Letourneau DK. 1988. *Soil management for pest control: a critical appraisal of the concepts* in Proceedings of the Sixth International Science Conference of



IFOAM on Global Perspectives on Agroecology and Sustainable Agricultural Systems. Santa Cruz.

Li SX, ZH Wang & BA Stewart. 2013. *Response of crop plants to ammonium and nitrate N* in Advances in agronomy vol 118. Elsevier Inc. Amsterdam.

Lilies SC. 2003. *Kunci determinasi serangga*. Kanisius. Yogyakarta.

Lin XQ, DF Zhu & XJ Lin. 2011. Effects of water management and organic fertilization with SRI crop practices on hybrid rice growth and rhizosphere biota. *Paddy Water Environment* 9:33-39.

Linares OF. 2002. *African rice (Oryza glaberrima): history and future potential*. Proceedings of the National Academy of Science of the United States of America 99: 16360-16365.

Litsinger JA, BK Gyawali & GE Wilde. 1998. Feeding behaviour of the rice bug *Leptocorisa oratorios* (Fabricius) (Hemiptera: Alydidae). *Plant Protection in the Tropics* 11: 23-35.

Lu JJ & TT Chang. 1980. *Rice in its temporal and spatial perspectives in Rice: Production and Utilization*. London.

Lu ZX, KL Heong, XP Yu & C Hu. 2005. Effects of nitrogen on the tolerance of brown planthopper, *Nilaparvata lugens*, to adverse environmental factors. *Insect Science* 12: 121-128.

Lu ZX, XP Yu, Heong & C Hu. 2007. Effect of nitrogen fertilizer on herbivores and its stimulation to major insect pests in rice. *Rice Science* 14 (1): 56-66.

Lubis Y. 2005. Peranan keanekaragaman hayati artropoda sebagai musuh alami pada ekosistem padi sawah. *Jurnal Pertanian Bidang Ilmu Pertanian* 3 (3): 16-24.

Lucas E. 2005. Intraguild predation among aphidophagous predators. Review. *European Journal of Entomology* 102: 351-364.

Lynch RJ, Bunn SE & Catterall CP. 2002. Adult aquatic insects: potential contributors to riparian food webs in Australia's wet-dry tropics. *Australian Ecology* 27:515-526.

Mader P, A Fliessbach A, D Dubois, L Gunst L, P Fried P & U Niggli. 2002. Soil fertility and biodiversity in organic farming. *Science* 296: 1694-1697.

Maftukhah R. 2014. *Effect of water and organins fertilizer managements on soil redox potential, nitrogen uptake, and rice performance under system of rice intensification*. Thesis. FTP-UGM. Yogyakarta.

Mahrub E. 1999. *Kajian pengendalian plami penggerek batang padi kuning Scirpophaga incertulas (Walker)*. Disertasi. UGM. Yogyakarta.

Maloney D, FA Drummond & R Alford R. 2003. *Spider predation in agroecosystems: Can spiders effectively control pest populations?* University of Maine. Orono.



- Manikandan N, JS Kennedy & V Geethalakshmi. 2015. Effect of temperature on life history parameters of brown planthopper (*Nilaparvata lugens* Stal). *African Journal of Agricultural Research* 10(38): 3678-3685.
- Marazzi C, B Patrian & E Stadler. 2004. Secondary metabolites of the leaf surface affected by sulphur fertilization and perceived by the diamondback moth. *Chemoecology* 14: 81–86.
- Marples NM. 1993. Is the alkaloid in 2 spot ladybirds (*Adalia bipunctata*) a defence against ant predation. *Chemoecology* 4(1): 29-32.
- Matsumura M & Y Suzuki. 2003. Direct and feeding induced interactions between two rice planthoppers, *Sogatella furcifera* and *Nilaparvata lugens*: Effects on dispersal capability and performance. *Ecological Entomology* 28 (2): 174 - 182.
- Mattson Jr. 1980. Herbivory in relation to plant nitrogen content. *Annual Review of Ecology* 11: 119–161.
- Mawan A. 2008. *Kemampuan pemangsaan dan konsumsi kepik predator *Cyrtorhinus lividipennis* Reuter (Hemiptera:Miridae) terhadap wereng batang coklat *Nilaparvata lugens* Stål (Hemiptera:Delphacidae)*. Skripsi. IPB. Bogor.
- Meilin A, YA Trisyono, E Martono & D Buchori. 2012. The effects of Deltamethrin applied at sublethal concentrations on the adults of *Anagrus nilaparvatae* (Hymenoptera: Mymaridae). *Agricultural and Biological Science* 7(12): 1032-1037.
- Menge BA & JP Sutherland. 1976. Species diversity gradients: Synthesis of the roles of predation, competition and temporal heterogeneity. *American Naturalist* 110:351-369.
- Miller TX. 2008. Bottom-up, top-down, and within-trophic level pressures on a Cactus-feeding insect. *Ecological Entomology* 33: 261–268.
- Miranti AH, Pratiwi D & Jauhari S. 2000. *Evaluasi introduksi teknologi pengendalian wereng coklat pada periode pasca SUP padi di Kabupaten Sragen*. Makalah Seminar. BPTP Ungaran.
- Mishra A & VM Salokhe. 2011. Rice root growth and physiological responses to SRI water management and implications for crop productivity. *Paddy and Water Environment* 9:41-52.
- Missouri Department of Conservation. 2011. *Interaction among organisms*. <http://mdc.mo.gov/sites/default/files/resources/2011/06/>
- Miyashita K. 1968. Growth and development of *Lysosa T-insignata* Boes.et. Str (Araneae: Lycosidae) under different feeding conditions. *Applied Entomology & Zoology* (3): 81.
- Mochida O & T Okada. 1979. *Taxonomy and biology of *Nilaparvata lugens* (Homoptera: Delphacidae) in Brown planthopper; Threat to rice production in Asia Philippines*. IRRI. Los Banos



- Morin PJ. 1999. *Community Ecology*. Blackwell Science. Malden.
- Morrill WL & LP Almazon. 1990. Effect of host plant species and age of rice bug (Hemiptera: Alydidae) eggs on parasitism by *Gryon nixonii* (Hymenoptera: Scelionidae). *Entomological Science* 25: 450-452.
- Morrill WL. 1997. Feeding behavior of *Leptocorisa oratorius* (F.) in rice. *Recent Research Developments in Entomology* 1:11-14.
- Mukerji R. 2009. *Climate change: vulnerability & adaptation experiences from Rajasthan & Andra Pradesh: SRI the system of rice intensification; Case Study India*. V&A Programme. India.
- Nasir S, W Akram & F Ahmed. 2012. The Population Dynamics, Ecological and Seasonal Activity of *Paederus fuscipes* Curtis (Staphylinidae: Coleoptera) in the Punjab, Pakistan. *APCBEE Procedia* 4: 36 – 41.
- Nickel H. 2003. *The leafhoppers and planthoppers of Germany (Hemiptera, Auchenorrhyncha): patterns and strategies in a highly diverse group of phytophagous insects*. Pensoft publ. Bulgaria.
- Novizan. 2003. *Petunjuk pemupukan yang efektif*. Agromedia Pustaka. Jakarta.
- Nugraha EMA. 2013. *Analisis pertumbuhan dan hasil padi sawah (Oryza sativa L) pada sistem pertanian konvensional, transisi organik dan organik*. Skripsi. FP-UGM. Yogyakarta.
- Nurbaeti B, A Diratmaja & S Putra. 2010. *Hama Wereng Cokelat (Nilaparvata lugens stal) dan Pengendaliannya*. Departemen Pertanian. Balai Pengkajian Teknologi Pertanian Jawa Barat.
- Nurhati I, S Ramdhaniati & N Zuraida. 2008. Peranan dan Dominasi Varietas Unggul Baru dalam Peningkatan Produksi Padi di Jawa Barat. *Buletin Plasma Nutfah* 14(1): 8-13.
- Oberg S. 2007. *Spiders in the agricultural landscape-diversity, recolonisation and body condition*. Swedish University of Agricultural Sciences. Uppsala.
- Oka IN. 1982. *The potential to the integration of plant resistance, agronomic, biological, physical/mechanical techniques and pesticide for pest control in farming systems*. Chemrawn II: Pergamon Press.
- Ooi PAC & BM Shepard. 1994. *Predators and parasitoids of rice insect pests dalam Biology and management of rice insects*. Wiley. India: 585-612.
- Padmavathi CH, RM Kumar, LV Subba Rao, K Surekha, PC Latha, MS Prasad, VR Babu, & IC Pasalu. 2009. Influence of SRI method of rice cultivation on insect pest incidence and arthropod diversity. *Oryza* 46(3): 227-230.
- Parman S. 2007. *Pengaruh pemberian pupuk organik cair terhadap pertumbuhan dan produksi kentang (Solanum tuberosum L)*. Buletin Anatomi dan fisiologi 15 (2).



- Peng S, GS Khush & KG Cassman. 1994. *Evolution of the new plant ideotype for increased yield potential: Breaking the yield barrier*: Proceeding workshop on rice yield potential in favourable environments. IRRI. Los Banos.
- Phiyaphongkul J. 2013. *Effects of thermal stress on the brown planthopper Nilaparvata lugens (Stal)*. Dissertation. University of Birmingham. United Kingdom.
- Poerwowidodo M. 1992. *Telaah kesuburan tanah*. Angkasa. Bandung.
- Prasetyaningtyas D. 2014. *Pengaruh pupuk NPK terhadap serapan N dan hasil beberapa kultivar padi pada budidaya SRI di vertisols Kulon Progo*. Skripsi. FP-UGM. Yogyakarta.
- Preap V, Zalucki MP, Jahn GC & Nesbitt MJ. 2001. Effectiveness of brown planthopper predators: Population suppression by two species of spider, *Pardosa pseudoannulata* (Araneae, Lycosidae) and *Araneus inustus* (Araneae: Araneidae). *Asia-Pacific Entomology* 4: 187-193.
- Priadi D, T Kuswara & U Soetisna. 2007. Padi organik versus non organik: Studi fisiologi benih padi (*Oryza sativa* L) lokal cultivar Rojolele. *Ilmu-Ilmu Pertanian Indonesia* 9(2): 130-138.
- Price PW, CE Bouton, P Gross, BA McPherson, Jn Thompson & AE Weis. 1980. Interactions among three trophic levels: Influence of plants on interactions between insect herbivores and natural enemies. *Annual Review of Ecology and Systematics* 11:41-65.
- Price WP. 2000. *Insect Ecology*. 3^{ed} edition. John Wiley and Sons. New York.
- Provost C, D Coderre, E Lucas & NJ Bostanian. 2003. Impacts of Lambda-cyhalothrin on intraguild predation among three mite predators. *Environmental Entomology*. 32: 256–263.
- Qiu HM, JC WU, GQ Yang, B Ding & DH Li. 2004. Changes in the uptake function of rice root to nitrogen, phosphorus and potassium under brown planthopper, *Nilaparvata lugens* (Stal) (Homoptera: Delphacidae) and pesticide stresses, and effect of pesticides on rice-grain filling in field. *Crop Protection* 23: 1041–1048
- Rahayu M. 2008. Identifikasi parasitoid telur dan potensi parasitasinya terhadap penggerek batang padi putih (*Scirphophga innotata* Walker) di lapang. *Warta-Wiptek* 16:83-86.
- Rahma D. 2014. *Keragaman dan kelimpahan arthropoda pada padi SRI organik yang diperlakukan dengan makrofauna tanah*. Skripsi. FP UGM. Yogyakarta.
- Rajendram GF & FR Devarajah. 1990. Survey of some rice insect pests and their predators in three district of Srilanka. *Natural Science Council* 18(1):79-92.
- Ramona W, A Heidi, C Marting & S Jack. 2005. Fertility, root reserves and cost of inducible defenses in the perennial plant *Solanum carolinense*. *Chemical Ecology* 31: 2263–2288.



- Ramzan M, M Akhter, A Rehman & M Salim. 2007. Carry over and population build-up of insect predators in rice wheat system. *Animal and plant sciences* 17:3-4.
- Rao EVSP & R Prasad. 1980. Nitrogen leaching losses from conventional and new nitrogen fertilizers in low-land rice culture. *Plant and soil* 57 (2/3): 383-392.
- Ravi G, R Rajendran, N Raju, K Chozhan & V Muralidharan. 2007. *Insect pest scenario in irrigated rice grown under SRI method of cultivation*. SRI India 2007- II National Symposium on System of Rice Intensification in India – Progress and prospects; October 3-5. India.
- Reissig WH, EA Heinrichs, JA Litsinger, K Moody, L Fiedler, TW Mew & AT Barrion. 1985. *Illustrated guide to integrated pest management in rice in Tropical Asia*. IRRI. Los Banos.
- Riechert SE & Harp J. 1987. Nutritional ecology of spiders dalam *Nutritional ecology of insects, mites, and spiders*. John Wiley & Sons. New York.
- Riechert SE & Lawrence K. 1997. Test for predation effects of single versus multiple species of generalist predators: Spiders and their Insect prey. *Entomology Exploration Applied* 84: 147-155.
- Riechert SE. 1999. The hows and whys of Successful pest suppression by spiders: Insights from Case Studies. *Arachnology* 27: 387-396.
- Riyanto. 2010. *Kelimpahan serangga predator kutu daun (Aphis gossypii) (Hemiptera: Aphididae) sebagai sumbangan materi kontekstual pada mata kuliah Entomologi di Program Studi Pendidikan Biologi*. FKIP UNSRI. Palembang.
- Rosmarkam A & NW Yuwono. 2002. *Ilmu kesuburan tanah*. Kanisius. Yogyakarta.
- Rothschild GHL. 1970a. Observations on the ecology of the rice-ear bug *Leptocorisa oratorius* (F.) (Hemiptera: Alydidae) in Sarawak (Malaysian Borneo). *Applied Ecology* 7(1): 147-167.
- Rothschild GHL. 1970b. *Gryon flavipes* (Ashmead) [Hymenoptera: scelionidae], an egg-parasite of the rice earbug *Leptocorisa oratorius* (Fabricius) [Hemiptera: Alydidae]. *Entomophaga* 15(1):15-20.
- Rubia-Sanchez E, Y Suzuki, K Arimura, K Miyamoto, M Matsumura & T Watanabe. 2003. Comparing *Nilaparvata lugens* (Stal) and *Sogatella furcifera* (Horvath) (Homoptera: Delphacidae) feeding effects on rice plant growth processes at the vegetative stage. *Crop Protection* 22(7): 967-974.
- Rubia-Sanchez E, Y Suzuki, K Miyamoto & T Watanabe. 1999. The potential for compensation of the effects of the brown planthopper *Nilaparvata lugens* Stal (Homoptera: Delphacidae) feeding on rice. *Crop Protection* 18: 39 – 45.
- Rypstra AL. 1997. Foraging enhanced by the presence of other predators: Prey capture of single- and mixed-species groups of spiders. *Bulletin Ecology Society of America* 78: 31.



- Saez NJ, S Senff, JE Jensen, SY Er, V Herzig, LD Rash & GF King. 2010. Spider-venom peptides as therapeutics. *Toxins* 2:2851-2871.
- Safraz M, LM Dossdall & BA Keddie. 2009. Host plant nutritional quality affects the performance of the parasitoid *Diadegma insulare*. *Biological Control* 51: 34-41.
- Salisbury FB & CW Ross. 1995. *Fisiologi tumbuhan*. Terjemahan. Institut Teknologi Bandung. Bandung.
- Sanchez PA. 1996. *Sifat dan pengelolaan tanah tropika*. Terjemahan. ITB. Bandung.
- Sand DPA. 1977. *The biology and ecology of Leptocoris (Hemiptera: Alydidae) in Papua New Guinea*. <http://www.cabdirect.org/abstracts/19790567009.html> (diakses: 07 desember 2014).
- Sembel DT. 2010. *Pengendalian hayati hama-hama serangga tropis dan gulma*. Andi. Yogyakarta.
- Setiawan AI. 1998. *Memfaatkan kotoran ternak*. Penebar Swadaya. Jakarta.
- Settle WH, H Ariawan, ET Astuti, W Cahyana, AL Hakim, D Hindayana, AS Lestari, S Pajarningsih. 1996. Managing tropical rice pest through conservation of generalist natural enemies and alternative prey. *Ecology* 77(7): 1975-1988.
- Setyorini D, S Rasti, EA Kosman. 2006. Kompos, pupuk organik dan pupuk hayati. *Jurnal Balai Besar Litbang Sumber Daya Pertanian*: 11-40.
- Shafroth PB, Stromberg JC, Patten DT. 2002. Riparian vegetation response to altered disturbance and stress regimes. *Ecological Application* 12:107-123.
- Shah F, J Huang, K Cui, L Nie, T Shah, C Chen & K Wang, 2011. Impact of high temperature stress on rice plant and its traits related to tolerance. *Agricultural Science* 149(5): 545-556.
- Shah PA, DR Brooks, JE Ashby, JN Perry & IP Woiwod. 2003. Diversity and abundance of the coleopteran fauna from organic and conventional management systems in southern England. *Agriculture and Forest Entomology* 5: 51-60.
- Shepard BM, AT Barrion & JA Litsinger. 1987. *Friends of the rice farmer: Helpful insects, spiders & pathogens*. IRRI. Los Banos.
- Siavoshi M, A Nasiri & SL Laware. 2011. Effect of organic fertilizer on growth and yield components in rice (*Oryza sativa* L.). *Agricultural Science* 3(3):217-224.
- Sih A, G Englund & D Wooster. 1998. Emergent impacts of multiple predators on prey. *Trends in Ecology and Evolution* 13: 350-355.
- Silaban F. 2013. *Respon fungsional M. sexmaculatus dan V. lineata (Coleoptera: Coccinellidae) terhadap wereng batang padi coklat N.lugens (Homoptera: Delphacidae)*. UGM. Yogyakarta.



- Simpson SJ & CL Simpson. 1990. *The mechanisms of nutritional compensation by phytophagous insects* in Bernays EA (Ed.) *Insect Plant Interactions* vol II. CPC Press. New York: 111-160.
- Singh B, Y Singh & GS Sekhon. 1995. Fertilizer use efficiency and nitrate pollution of groundwater in developing countries. *Contaminant Hydrology* 20: 167-184.
- Singh G & SY Ali. 2006. Paederus dermatitis. *Dermatology Vernereol Leprol* 73: 13-15.
- Snyder WE & AR Ives. 2001. Generalist predators disrupt biological control by a specialist parasitoid. *Ecology* 82: 705-716.
- Snyder WE & DH Wise. 1999. Predator interference and the establishment of generalist predator populations for biocontrol. *Biological Control* 15: 283-92.
- Snyder WE, GM Clavenger GM & SD Eigenbrode. 2004. Intraguild predation and successful invasion by introduced ladybird species. *Oecologia* 140: 559-565.
- Soemarno. 2010. *Ekologi tanah: Bahan kajian manajemen agroekosistem*. FP-Universitas Brawijaya. Malang.
- Sogawa K & Cheng CH. 1979. *Economic thresholds, nature of damage, and losses caused by the brown planthopper dalam Brown planthopper, threat to rice production in Asia*. IRRI. Los Banos.
- Sogawa K. 1982. The rice brown planthopper: feeding physiology and host plant interactions. *Annual Review of Entomology*. 27, 49-73.
- Son LE, VQ Con & TN Lan. 2015. *Morphological, Biological and Ecological Characteristics of Ground Beetle Ophionea indica (Thunberg) (Coleoptera: Carabidae)*. Abstract. [Diakses tanggal 30 November 2015].
- Staley JT, DB Stafford, ER Green, SR Leather, JT Rossiter, GM Poppy & DJ Wright. 2011. Plant nutrient supply determines competition between phytophagous insects. *Biological Sciences* 278 (1706): 718-724.
- Stehr FW. 1987a. *Immature Insects* I. Kendall/Hunt PC. Iowa.
- Stehr FW. 1987b. *Immature Insects* II. Kendall/Hunt PC. Iowa.
- Suana IW & H Haryanto. 2013. Keanekaragaman laba-laba dan potensinya sebagai musuh alami hama tanaman jambu mete. *Entomologi Indonesia* 10(1):24-30.
- Suana IW. 1999. *Pemangsaan laba laba Pardosa pseudoannulata (Boes. & Str) di pertanaman padi*. IPB. Bogor.
- Sudewi S. 2010. *Pengaruh tinggi genangan air dan takaran bekatul terhadap pertumbuhan gulma dan hasil padi*. Tesis. FP-UGM. Yogyakarta.
- Sugimoto A & L Nugalliyadde. 1995. Damage of rice grains caused by the rice bug, *Leptocorisa oratorios* Fabricius (Heteroptera: Alydidae). *Japan International Research Center for Agricultural Sciences* 2: 13-17.



- Sullivan AM, DM Madison & JR Rohr. 2003. Behavioural responses by red-backed salamanders to conspecific and heterospecific cues. *Behaviour* 140: 553-564.
- Sunderland K. 1999. Mechanisms underlying the effects of spiders in pest populations. *Arachnology* 27:308–316.
- Sunderland KD, AM Fraser & AFG Dixon 1986. Field and laboratory studies on money spiders (Linyphiidae) as predators of cereal aphids. *Applied Ecology* 23:433–447.
- Suprihatno B, AA Daradjat, Satoto, SE Baehaki, IN Widiarta, A Setyono, SD Indrasari, OS Lesmana & H Sembiring. 2009. *Deskripsi Varietas Padi*. BBPTP. Deptan. Jakarta.
- Suryadi Y, D Susilowati, A Akhdiya, TS Kadir & B Wibowo. 2013. Efficacy of consortium bacteria for control rice diseases under System of Rice Intensification (SRI) in West Java - Indonesia. *Albanian Journal of Agricultural Sciences* 12(1): 143-147.
- Sutaryo B. 2008. Kajian parameter genetik beberapa karakter agronomis sejumlah padi brida introduksi dari Cina. *Agritek* 17 (11):105-115.
- Sutedjo MM. 1999. *Pupuk dan cara pemupukan*. Rhineka Cipta. Jakarta.
- Syahrawati M & H Hamid. 2010. *Diversitas Coccinellidae predator pada pertanaman sayuran di Kota Padang*. Lembaga Penelitian Universitas Andalas. Padang.
- Syahrawati M, E Martono, NS Putra & BH Purwanto. 2014. *Keragaman herbivora-karnivora pada padi organik hemat air di Yogyakarta*. Semiloka FKPTPI di Universitas Andalas Padang: 8-10 September.
- Symondson WOC, KD Sunderland & MH Greenstone. 2002. Can generalist predators be effective biocontrol agents? *Annual review Entomology* 47: 561-594.
- Thakur AK, S Rath, DU Pati & A Kumar. 2011. Effects on rice plant morphology and physiology of water and associated management practices of the System of Rice Intensification and their implications for crop performance. *Paddy Water Environment* 9 (1): 13-24.
- Thiyagarajan TM & B Gujja. 2013. *SRI transforming rice production with SRI (System of Rice Intensification) knowledge and practice*. National Consortium on Rice. India.
- Tisdale SL, WL Nelson, JD Beaton & JL Havlin. 1993. *Soil fertility and fertilizers*. 5th edition. Macmillan Publishing Co. New York.
- Triplehorn CA dan NF Johnson. 2005. *Borror and Delong's introduction to the study of insect 7th Ed*. Belmont: Thomson Brooks/Cole.
- Tscharntke T & BA Hawkins, ed. 2008. *Multitrophic level interactions: an introduction*. Cambridge University Press. Colombia.



- Turmel MS, J Espinosa, L Franco, C Perez, H Hernandez, E Gonzalez, G Fernandez, C Rojas, D Sanchez, N Fernandez, M Barrios, JK Whalen & BL Turner. 2011. On-farm evaluation of a low-input rice production system in Panama. *Paddy Water Environment* (9):155–161.
- Uchida R. 2000. *Essential nutrients for plant growth: Nutrient functions and deficiency symptoms dalam Plant Nutrient Management in Hawaii's Soils, Approaches for Tropical and Subtropical Agriculture*. University of Hawaii. Manoa. [diunduh tanggal 30 November 2015]
- Udiarto BK, P Hidayat, A Rauf, Pudjianto & SH Hidayat. 2012. *Kajian potensi predator Coccinellidae untuk pengendalian Bemisia tabaci (Gennadius) pada cabai merah*. Laporan Penelitian. IPB. Bogor.
- Uphoff N & R Randriamiharisoa. 2002. *Reducing water use in irrigated rice production with the Madagascar System of Rice Intensification (SRI)* in: Water-wise rice production. IRRI. Los Banos.
- Uphoff N. 2008. The system of rice intensification (SRI) as a system of agricultural innovation. *Jurnal Tanah dan Lingkungan* 10(1): 27-40.
- V Rutkoviene, L Cesoniene & D Steponavicius. 2007. Nitrogen losses from organic and mineral fertilizers in model soil system. Proceeding. *Cereal Research Communications* 35(2): 313- 316.
- Vallina SM, BA Ward, S Dutkiewicz & MJ Follows. 2014. Maximal feeding with active prey-switching: A kill-the-winner functional response and its effect on global diversity and biogeography. *Progress in Oceanography* 120: 93–109.
- Vaughan DA, H Morishima & K Kadowaki. 2003. Diversity in the Oryza genus. *Current Opinion in Plant Biology* 6: 139-146.
- Vaughan DA. 1994. *The wild relatives of rice: a genetic handbook*. International Rice Research Institute. Los Banos.
- Vlek PL & BH Byrnes. 1986. The efficacy and loss of fertilizer N in lowland rice. *Fertilizer Research* 9:131–147.
- Wagiman FX, B Tamba & I Rinarti. 2014. Functional and numerical response of *Paederus fuscipes* Curtis against *Nilaparvata lugens* Stall and their spatial distributin in the rice fields. *Agricultural and Biological Science* 9(3):117-121.
- Wasonawati C. 2011. Meningkatkan pertumbuhan tanaman tomat (*Lycopersicon esculentum* Mill) dengan sistem budidaya hidroponik. *Agrovigor* 4(1):21-28.
- Wassmann R, SVK Jagadish, S Heuer, A Ismail, E Redona, R Serraj, RK Singh, G Howell, H Pathak & K Sumfleth. 2009. Climate change affecting rice production: the physiological and agronomic basis for possible adaptation strategies. *Advances in Agronomy* 101:59-122.
- Watanabe T & H Kitagawa. 2000. Photosynthesis and translocation of assimilates in rice plants following phloem feeding by the planthopper *Nilaparvata lugens* (Homoptera: Delphacidae). *Economic Entomology* 93: 1192-1198.



- Wibowo P, SD Indrasari & DD Handoko. 2007. Preferensi konsumen terhadap karakteristik beras dan kesesuaiannya dengan standar mutu beras di Jawa Tengah. *Apresiasi Hasil Penelitian Padi*: 821-833.
- Widiarta IN, ES Wijaya & H Sawada. 2006. Dinamika populasi wereng punggung putih *Sogatella furcifera* Stal (Hemiptera: Delphacidae) di Jawa Tengah. *Entomologi Indonesia* 3(1):1-13.
- Wild PL, CV Kessel, J Lundberg & BA Linguist. 2010. Evaluation of nitrogen sources for organic rice production. <http://ofrrf.org>.
- Will KW, AB Attygalle & K Herath. 2000. New defensive chemical data for ground beetles (Coleoptera: Carabidae): interpretations in a phylogenetic framework. *Biological Journal of the Linnean Society* 71: 459–481.
- Wilson MR & Claridge MF. 1991. *Handbook for the identification of leafhoppers and planthoppers of rice*. NRI. London.
- Win SS, R Muhamad, ZAM Ahmad & NA Adam. 2011a. Life table and population parameters of *Nilaparvata lugens* Stal. (Homoptera: Delphacidae) on rice. *Tropical Life Sciences Research* 22(1): 25-35.
- Win SS, R Muhamad, ZAM Ahmad & NA Adam. 2011b. Population fluctuation of brown planthopper *Nilaparvata lugens* Stal and White backed planthopper *Sogatella furcifera* Horvath on rice. *Entomology* 8(2):183-190.
- Winarso S. 2005. *Kesuburan tanah; dasar kesehatan dan kualitas tanah*. Gavamedia. Yogyakarta.
- Wise DH. 1995. *Spider in ecological webs*. Cambridge University Press. New York.
- Yamashita K, K Sudo, T Adachi & K Miura. 2005. Estimation of number of annual generations using effective heat unit of development for the rice bug, *Leptocorisa chinensis* (Dallas) (Hemiptera: Alydidae). *Applied Entomology & Zoology* 40:621-624.
- Yardim & Edwards. 2003. Effects of organic and syntetic fertilizer source on pest and predatory insect associated with tomatoes. *Phytiparasitica* 31(4): 321-329.
- Yasuda H & Kimura T. 2001. Interspecific interactions in a tritrophic arthropod system: effects of a spider on the survival of larvae of three predatory ladybirds in relation to aphids. *Entomology Exp. Applied* 98: 17–25.
- Yoshida S. 1981. *Fundamentals of Rice Crop Science*. IRRI. Los Banos.
- Zhang YB, QY Tang, SB Peng, DY Xing, JQ Qin, RC Laza & BR Punzalan. 2012. Water use efficiency and physiological response of rice cultivars under alternate wetting and drying conditions. *The Scientific World Journal*. 287907.
- Zhao L, L Wu, M Wu & Y Li. 2011. Nutrient uptake and water use efficiency as affected by modified rice cultivation methods with reduced irrigation. *Paddy Water Environment* (9):25–32.



- Zheng XS, G Chen, HX Hu & ZX Lu. 2009. *Interactive effects of temperature and nitrogen fertilizer on the survival, development, and reproduction of brown planthopper Nilaparvata lugens*. Abstrak. NCBI 20(05):1171-1175.
- Zhi 2001. *Environmental impact of water saving irrigation for rice* in Smith, LS Pereira eds. Irrigation schedulling; from theory to practice. Proceeding of ICID/FAO workshop on irrigation schedulling. Roma.
- Zhi M. 1993. Water efficient irrigation and environmentally sustainable irrigated rice production in China. Wuhan University. Wuhan.
- Zhou W, TF Lv, Y Chen, AP Westby & W Ren. 2014. Soil physico-chemical and biological properties of paddy-upland rotation: a review. *The scientific world journal*. 856352.