

DAFTAR PUSTAKA

- Abdullah, B., Tjokrowidjojo, S., Kustianto, B., dan Daradjat, A.A. 2005. Pembentukan Varietas Unggul Tipe Baru Fatmawati. *Jurnal Penelitian Pertanian* Vol. 25 (1) : 1-7.
- Abdullah, B., Tjokrowidjojo, S., dan Sularjo. 2008. Perkembangan dan Prospek Perakitan Padi Tipe Baru Di Indonesia. *Jurnal Litbang Pertanian*. Vol 27 (1).
- Agustina, K., Sopandie, D., Trikoesoemaningtyas, Wirnas, D. 2010. Tanggap Fisiologi Akar Sorgum (*Sorghum bicolor* L. Moench) terhadap Cekaman Aluminium dan Defisiensi Fosfor di dalam Rhizotron. *Jurnal Agronomi Indonesia* Vol.38 : 88-94.
- Allidawati dan Bambang, K. 1989. Metode Uji Mutu Beras dalam Program Pemuliaan Padi. Dalam : Padi Buku II. M. Ismunadji, Mahyuddin Syam dan Yuswadi. Halaman 363-375. Badan Penelitian dan Pengembangan Pertanian. Bogor.
- Allidawati, G. 2003. Teknik Analisis Kadar Amilosa dalam Beras. *Buletin Teknik Pertanian* Vol. 8 (2).
- Amin, M., Jamshid, H. R., Khan, E.A, and Ramzan, M. 2005. Comparative response of diverse rice varieties to green manuring (*sesbania aculeata*). *Journal of Research (Science)*, Bahauddin Zakariya University, Multan, Pakistan. Vol.16 (1) : 9-43.
- Allen, P and Dusen, V. D. 1988. Sustainable Agriculture : Choosing the Future. In : *Global Perspective on Agroecology am Sustainable Agricultural Systems*. University of California, Santa Cruz, CA. USA.
- Atmojo, S. W. 2003. Peranan Bahan Organik Terhadap Kesuburan Tanah dan Upaya Pengelolaannya. Pidato Pengukuhan Guru Besar Ilmu Kesuburan Tanah Fakultas Pertanian Universitas Sebelas Maret.
- Badan Standardisasi Nasional (BSN). 2013. Sistem Pangan Organik. SNI 6729 Tahun 2013.
- Balasubramanian, V., Morales, A.C., Cruz, R.T, and Abdurachman, S. 1999. On-farm adaptation of knowledge-intensive nitrogen management technologies for rice systems. *Nutrient Cycling in Agroecosystem*. Vol 53 : 93-101.
- Balemi, T. and Negisho, K. 2012. Management of Soil Phosphorus and Plant Adaptation Mechanisms to Phosphorus Stress for Sustainable Crop Production : a review. *Journal of Soil Science and Plant Nutrition*. Vol 12 (3) : 547-561.
- Blair G., 1993. Nutrient efficiency what do we really mean ? Oj Randall et al.(eds). *Genetic aspects of plant mineral nutrition*. 205-213.

- BBPTP. 2006. Laporan Tahunan 2005. Balai Besar Penelitian Tanaman Padi. Sukamandi. 133 hal.
- Bhonsle, S.J. 2010. Grain Quality Evaluation and Organoleptic Analysis of Aromatic Rice Varieties of Goa, India. *Jurnal of Agricultural Science* Vol.2 (3) : 99-107.
- Chamuah, G. S. and Dey, S.K. 1982. Determination of Cation Exchange Capacity of Woody Plant Roots Using Ammonium Acetate Extractant. *Plant and Soil Journal* Vol. 68 : 135-138
- Chesson, A., 1997. Plant Degradation by ruminant : parallels with litter decomposition in soil. In *Driven by Nature Plant Litter Quality and Decomposition*. Department of Biological Sciences. (Eds Cadisch, G. and Giller, K.E.), pp.46-66. Wey Collage, University of London, UK.
- Costa, C., Dwyer, L.M., Zhou, X P. Dutilleul, .Hamel, C., Reid, L.M., and Smith, D.L. 2002. Root Morphology of Contrasting Maize Genotypes. *Agronomi Journal* Vol. 94 : 96-101.
- Cruz, N. M. D., 2002. Rice Grain Quality Evaluation Procedures. Methods Currently in use in the PBGB Grain Quality Laboratory. IRRI. Philippines.
- Dalrymple, D. G. 1986. Development and Spread of high yielding Rice Varieties in Developing Countries. Bureau for Science and Technology, Agency for International Development. Washington, DC. 117 p.
- Damardjati, D. S., 1995. Karakteristik Sifat Standardisasi Mutu Beras sebagai Landasan Pengembangan Agribisnis dan Agroindustri Padi di Indonesia. Orasi Pengukuhan Ahli Peneliti Utama. Balai Penelitian Bioteknologi Tanaman Pangan . Bogor.
- De Datta, S. K. 1981. Post Production Technology of Rice. In : *Principles and Practices of Rice Production*. John Wiley and Sons. P. 513-545.
- Dobermann, A., and Fairhurst, T. 2000. Rice, Nutrient Disorders and Nutrient Management. International Rice Research Institute and Potash & Phosphate Institute of Canada.
- Dormaar, J. F. C. W., Lindwall, G., and Kozub, C. 1988. Effectiveness of Manure and Commercial Fertilizer in Restoring Productivity of an Artificially eroded dark brown chernozemic soil under dryland conditions. *Canadian Journal of Soil Science*. Vol. 68 : 669-679.
- Duncan, R.R. and Baligar, V.C. 1990. Genetics, breeding and physiological mechanism of nutrient uptake and use efficiency : An overview. In. V.C. Baligar and R. R. Duncan (eds). *Crop as Enhancer of nutrient Use*. Academic Press, San Diego.
- Eghball, B., Settimi, J.R., and Maranville, J.W., and Parkhurst, A.M. 1993. Fractal Analysis for Morphological Description of Corn Root under Nitrogen Stress. *Agronomi Journal*. Vol. 85 : 287-289.

- Facknath, S and Lalljee, B. 2001. Organic Agriculture : A Myth or Reality in the Mauritian Context. Food and Agricultural Research Council, Mauritius.
- Fahn, A. 1982. Anatomi Tumbuhan. Penerjemah : Soudiarto, A., Koesoemaningrat, T., Natasaputra, M. dan Akmal, H. Gadjah Mada University Press. Yogyakarta.
- Fan, G., Dong, Y., Wang, C., Wan, J., Xie, H., Xu, C., Zhu, J., Cai, Q. 2007. Analysis of QTLs for Flag Leaf Shape and Its Response to Elevated CO₂ in Rice. Elsevier BV.
- Fohse, D., Claassen, N., and Jungk, A. 1988. Phosphorus Efficiency of Plant. I. External and Internal P Requirement and P Uptake Efficiency of Different Plant Species. Plant and Soil Journal. Vol.110 : 101-109.
- Gahoonia., and Nielsen, N.E. 1996. Variation in Acquisition of Soil Phosphorus among Wheat and Barley genotypes. Plant and Soil Journal. Vol. 178 : 223-230.
- Gardner F.P., Pearce, R.B., and Richell, R.L. 1991. Physiology of Crop Plant. Iowa State Univ Press.
- Gerloff, G.C. 1987. Intact Plant Screening for Tolerant of Nutrient Deficiency Stress. Plant and Soil Journal. Vol. 99 : 3-16.
- Gholizadeh, A., Amin, M.S.M., Anuar, A. R., Aimrun, W., and Saberioon, M.M. 2011. Temporal Variability of SPAD Chlorophyll Meter Readings and its Relationship to Total Nitrogen in Leaves within a Malaysian Paddy Field. Australian Journal of Basic and Applied Sciences, Vol. 5 (5) : 236-245.
- Gomez, K.A., and Gomez, A.A. 1995. Statistical Procedures for Agricultural Research. John Wiley and Sons. 680 p.
- Ghimire, A. 2002. A review on Organic Farming for Sustainable Agriculture. Dept of Agriculture Extension and Rural Sociology Institute of Agriculture and Animal Science Rampur, Chitwan, Nepal. 24p.
- Giese, M., Bauer-Doranth, U., Langebartelss, C., and Sandermann, H. 1994. Detoxification of Formaldehyde by the Spider Plant (*Chlorophytum comosum* L.) and Soybean (*Glycine max* L.) cell Suspension Cultures. Plant Physiology Journal. Vol. 104 : 1301-1309.
- Guohua, Mi, Chen, F. and Zhang F. 2012. Physiological and Genetic Mechanisms for Nitrogen-use Efficiency in Maize. Crop Science Biotechnology Journal, Vol.10 (2) : 57-63.
- Guswara, A., Tita, R., Sutisna, dan Las, I. 2003. Intersepsi radiasi dalam berbagai jarak tanam padi tipe baru. Laporan kemajuan Penelitian. Balai Besar Penelitian Tanaman Padi. Sukamandi. 11p.
- Hadi, S., Budiarti, T., dan Haryadi. 2005. Studi Komersialisasi Benih Padi Sawah Varietas Unggul Baru. Jurnal Agronomi. Vol. 33 (1) : 12-18.

- Hanudin, E. 2000. Pedoman Analisis Kimia Tanah. Jurusan Tanah Fakultas Pertanian UGM. Yogyakarta.
- Hanum, C., Mugnisyah W.Q., Yahya, S., Sopandy, D., Idris, K., dan Sahar, A. 2007. Pertumbuhan Akar Kedelai pada Cekaman Aluminium, kekeringan dan Cekaman Ganda Aluminium dan Kekeringan. *Journal Agritrop*. Vol.26 (1) : 13-18.
- Hasanuzzaman, M., Ahamed, K.U., Rahmatullah, N.M., Akhter, N., Nahar, K., and Rahman, M.L. 2010. Plant Growth Characters and Productivity of Wetland Rice (*Oryza sativa* L.) as Affected by Application of Different Manures. *Emir. Food Agricultural Journal*. Vol. 22 (1) : 46-58.
- Hayati, R., Munandar, dan Irmawati, 2008. Pertumbuhan Akar dan Tajuk serta Hasil Beberapa Varietas/Galur Jagung pada Kondisi Defisien Hara. *Zuriat*. Vol. 19 (1).
- Hirasawa, T., Ozawa, S., Taylor, R.D and Ookawa, T. 2010. Varietal differences in photosynthetic rates in rice plants, with special reference to the nitrogen content of leaves. *Plant Production Science Journal*. Vol. 13 : 53-57.
- Horrie, T., Homma, K., and Yoshida, H. 2006. Physiological and morphological traits associated with high yield potential in Rice. Abstracts. Second International Rice Congress. 2006. 26th International Rice Research Conference. P.12-13.
- Hussain, F., Bronson, K.F., Singh, Y., Singh, B., and Peng, S. 2000. Use of chlorophyll meter sufficiency indices for nitrogen management of irrigated rice in Asia. *Agronomy Journal*. Vol. 92 : 875-879.
- Ikemura, Y., and Manoj Shukla, K. 2009. Soil Quality In Organic and Conventional Farms of New Mexico, USA. *Journal of Organic Systems*, Vol. 4 (1).
- Indradewa, D., 2002. Gatra Agronomis dan Fisiologis Pengaruh Genangan dalam Parit pada Tanaman Kedelai. Disertasi. Universitas Gadjah Mada. Yogyakarta. 2002.
- Indriyati, L.T., Sabiham, S., Kadarusman, L.K., dan Situmorang, R. 2008. Transformasi Nitrogen dalam Keadaan Tergenang : Aplikasi Jerami Padi dan Kompos Jerami Padi. *Jurnal Tanah Tropika*. Vol.13 (3) : 189-197.
- IRRI. 1970. Rice Production Manual (Revised Edition 1970). Compiled by University of the Philippines in Cooperation with the International Rice Research Institute.
- IRRI, 1980. Descriptors for Rice (*Oryza sativa* L.). International Rice Research Institute and International Board for Plant Genetic Resources. Manila, Philippines.

- Islami, T., dan Utomo, W.H. 1995. Hubungan Tanah, Air , dan Tanaman. IKIP Semarang Press.
- Ismunadji, M., Partohardjono, S., Syam, M., dan Widjono, A. 1988. Padi (Buku 1). Badan Penelitian dan Pengembangan Pertanian. Bogor.
- Jagau, Y. 2000. Fisiologi dan Pewarisan Efisiensi Nitrogen dalam Keadaan Cekaman Aluminium pada Padi Gogo (*Oryza sativa* L.). Disertasi. Program Pasca Sarjana. Institut Pertanian Bogor.
- Jahroh, S. 2010. Organic Farming Development in Indonesia : Lessons Learned from Organic Farming in West Java and North Sumatra. ISDA, Montpellier, June 28-30, 2010.
- Johannsen, J., Mertineit, Wilhelm, B., Buntzel-Cano, R., Schone, F., and Fleckenstein. 2005. Organic Farming, A contribution to sustainable poverty alleviation in developing countries. German NGO Forum Environment and Development.
- Jolly, D., 2000. From Cottage Industry to Conglomerates : The Transformation of the US Organic Food Industry. Dalam Prosiding Konferensi Ilmiah IFOAM, Swiss.
- Kant, S., Bi, Y.M., and Rothstein S.J. 2011. Understanding Plant Response to Nitrogen Limitation for the Improvement of Crop Nitrogen Use Efficiency. *Journal of Experimental Botany*, Vol. 62 (4). :1499-1509.
- Khan, M. A., I., K. Ueno, S. Horimoto, F. Komai, K. Tanaka, and Y. Ono. 2007. Evaluation of the Physio-Chemical and Microbial Properties of Green Tea Waste-Rice Bran Compost and the Effect of the Compost on Spinash Production. *Plant Production Science Journal*, Vol. 10 (4) : 301-399.
- Khush, G.S., Paule, C.M., and De La Cruz, N.M. 1979. Rice Grain Quality Evaluation and Improvement. *Proceeding of the workshop on the rice grain quality*. IRRI. Los Banos, Philippines. P.21-32.
- Komatsuzaki, M. and Syaib, M.F. 2010. Comparison of the Farming System and Carbon Sequestration between Conventional and Organic Rice Production in West Java, Indonesia. Sustainability Journal. Vol. 2 : 833-843.*
- Kramer, P.J. and Boyer, J.S. 1995. Water Relation of Plant and Soils. Academic Press, san Diego.*
- Lakitan, B. 1995. Dasar-dasar Fisiologi Tumbuhan. Raja Grafindo persada. Jakarta.*
- Laksanalamai, V., and Ilangantileke, S. 1993. Comparison of Aroma Compound (2 acetyl-1-pyrroline) in Leaves from Pandan (Pandanus amaryllifolius) and Thai Fragrant Rice (Khaw Swk Mali-105). Cereal Chemical Journal. Vol.70 (4) : 381-384.*

- Larijani, B.A. and Hoseini, S.J. 2012. *Comparison of Integrated Chemical and Organic Fertilizer Management on Rice Growth and Yield Under System of Rice Intensification (SRI)*. *International Journal of Agronomy and Plant Production*. Vol. 3 (6) : 726-731.
- Lestari, A.P., Abdullah, B., Junaedi, A., dan Aswidinnoor, H. 2011. *Performance of Grain Quality and Aroma of Aromatic New Plant Type Promising Rice Lines*. *Indonesian Journal Of Agricultural Science*. Vol.12 (2) : 84-93.
- Liebhardt, W. C. 2001. Get the facts straight L organic agriculture yields are good. *Organic Farming Research Foundation Information*. Journal Summer. Vol. 10.
- Loneragan, J. F. and Snowball, K. 1968. Rate of calcium absorbtion by plants roots and its relation to growth. *Australian Journal of Agricultural*. Vol. 20 : 479-490
- Lotter, D.W. 2003. *Oganic Agriculture*. The Rodale Institute. *Sustainable Agricultural Journal*, Vol. 21 (4).
- Mandana, T., Gerayzade, A., Amiri, E., and Zade, A.N. 2011. Effect of nitrogen fertilizer on nitrogen uptake, nitrogen use efficiency of rice. *International Conference on Biology, Environment and Chemistry*. IPCBEE. Vol 24 (2011).
- Marschner, H. 1995. *Mineral Nutrition of Higher Plants*. Academic Press. London.
- Matsumoto, H., Yamamoto, Y., and Kasai, M. 1992. Changes of some properties of the Plasma Membrane Enriched Fraction of Barley Roots related to Aluminium Stress ; Membrane associated ATPase, Aluminium and Calcium. *Soil Science Plant Nutrition Journal*. Vol. 38 (3) : 411-419.
- Matsuo, T and Hoshikawa, K. 1993. *Science of the Rice Plant Volume I. Morphology*. Food and Agriculture Policy Research Center. Tokyo. 685p.
- McGiffen, M.E., and Manthey, J.A. 1996. The role of Methanol in Promoting Plant Growth : A current Evaluation. *Horticultural Science Journal*. Vol.31 (7) : 1092-1096.
- Mengel, K and Kirkby, E.A. 1987. *Principles of plant Nutrition*. International Potash Institute. Switzerland. 687 p.
- Mohr, H., and Schopfer, P. 1995. *Plant Physiology*. Springer-Verlag, NY. 629 p.
- Miah, M.N.H., Yoshida, T. and Yamamoto, Y. 1997. Effects of nitrogen application during ripening period on photosynthesis and dry matter production and its impact on yield and yield components of semidwarf indica rice varieties under water culture conditions. *Soil Science Plant Nutrition Journal*. Vol. 43 : 205-217.
- Mungara, E., Indradewa, D., dan Rogomulyo, R. 2013. Analisis Pertumbuhan dan Hasil Padi Sawah (*Oryza sativa* L.) Pada Sistem Pertanian

Konvensional, Transisi Organik, dan Organik. *Jurnal Vegetalika* Vol.2 (3) : 1-12.

Murata, Y. and Matsushima, S. 1978. Rice. In. L.T. Evans (ed). *Crop Physiology*. Cambridge University Press. Cambridge.

Murayama, N. 1995. Fertilizer Application to Rice in Relation to Nutriphysiology of Ripening. *Journal Agricultural Science*. Vol. 24 (2) : 71-77

Mynt, A.K., T. Yamakawa and Zenmyo, T. 2009. Plant Growth, Seed Yield and Apparent Nutrient Recovery of Rice by the Application of Manure and Fertilizer as Different Nitrogen Sources in Paddy Soils. *Facultas of Agricultural Journal Kyushu University*. Vol. 54 (2) : 329-337.

Neera, Katano, P.M., and Hasegawa, T. 1999. Comparison of rice Yield after various years of cultivation by natural farming. *Plant Production Science Journal*. Vol. 2 (1) : 58-64.

Otoole, J. C dan Soemartono, 1980. Evaluation of simple technique for characterizing rice root system in relation to drought resistance. The International Rice Research Institute. Manila, Philippines.

Orcutt, D.M., and Nielsen, E.T. 2000. The physiology of Plant under Stress. Soil and Biotic Factors. John Wiley and Sons Inc., New York.

Padel, S and Lampkin, N.H. 1994. Farm-level performance of organic Farming Systems : an overview. In : *The Economics of Organic Farming*, N. H. Lampkin and S. Padel, editors. CAB : Wallingford, UK. P.201-219.

Pandey, S., Thapa, K.B., and Oli, I.B. 2013. Correlations of Available Phosphorus and Potassium with Soil pH and Organic Matter Content at Different Soil Reaction Categories in Soils of Western Development Region, Nepal. *Journal Chemical Biology Physiology Science*. Vol 3 (1) : 128-133.

Papendick, R. I., and Elliott, L.F. 1984. Tillage and Cropping System for Erosion Control and Efficient Nutrient Utilization. Dalam *Organic Farming : Current Technology and Its Role in a Sustainable Agriculture*. p.69-81.

Parasuraman, P. dan Chandrasekaran, B. 2005. Effect of Split Application of Nitrogen at Different Levels with Green Manure on Rice (*Oryza sativa* L.). *Madras Agricultural Journal*. Vol 92 (10-12) : 757-759.

Peng, S., F.C. Garcia, R.C. Laza, and K.G. Cassman, 1993. Adjustment for specific leaf weight improves chlorophyll meter's estimation of rice leaf nitrogen concentration. *Agronomy Journal*. Vol. 85 : 987-990.

Peng, S., Kush, G.S., and Cassman, K.G. 1994. Evolution of the new plant ideotype for increased yield potential. In : K. G. Cassman (Ed). *Breaking the Yield Barrier. Proceeding of Workshop on Rice Yield Potential in Favorable Environment*. Manila. 29 Nopember-Desember 1993. P.3-20.

- Peng, S., Laza, R.C., Garcia, F.C., and Cassman, K.G. 1995. Chlorophyll meter estimates leaf area-based N concentration of rice. *Soil Science and Plant Analysis Journal*. Vol. 26 : 927-935.
- Peng, S., Garcia, F.V., Laza, R.C., Sanico, A.L., Visperas, R.M., and.. Cassman, K.G. 1996. Increased N-use efficiency using a chlorophyll meter on high-yielding irrigated rice. *Field Crops Research Journal*. Vol. 47 : 243-252.
- Peng S., and Senadhira. 1998. Genetic enhancement of rice yield. In : Dawling, N.G., S.M. Gmenfield, and K. S. Fisher (Eds.). *Sustainability of Rice in the Global Food System*. Pacific Basin Study Center. IRRI. Manila. 404p.
- Permentan, 2013. Sistem Pertanian Organik. Permentan nomor 64/Permentan/OT.140/5/2013
- Peters, S. E. 1994. Conversion to low-input farming systems in Pennsylvania, USA : an evaluation of the Rodale Farming Systems Trial and related economic studies. In : *The Economic of Organic Farming*, N. H. Lampkin and S. Padel. Editor. CAB : Wallingford, UK. P.265-284.
- Philippine Council for Agriculture and Resources Research and Development, 1985. *Research Techniques in Crops*. PCARRD Book Series no.35/1985. Nationala Science and Technology Authority.
- Power, J.F. and Papendick, R. I., 1997. Sumber-sumber Organik Hara. Dalam : *Teknologi dan Penggunaan Pupuk* (Eds. Engelstad O.P) (Transl. Didiek Hadjar Goenadi), pp.752-778. Gadjah Mada University Press. Yogyakarta.
- Purwanto. 2006. Respon Pertumbuhan dan Hasil 4 varietas padi yang ditanam pada system pertanian organik, semi organik dan konvensional. Tesis Pasca Sarjana UGM. 2006.
- Otoole, J. C dan Soemartono, 1980. Evaluation of simple technique for characterizing rice root system in relation to drought resistance. The International Rice Research Institute. Manila, Philippines.
- Rajaram, S., Barun, H.J., Van Ginkel, M. 1996. CIMMYT approach to breed for tolerance. *Euphytica Journal*. Vol. 92 : 147-153.
- Rakshit, A., Sarkar, N.C., and Sen, D. 2008. Influence of organic manures on productivity of two varieties of rice. *Journal Central European of Agriculture*. Vol. 9 (4) : 629-634.
- Ram, L. C., 1980. Cation Exchange Capacity of Plant Roots in Relation to Nutrients Uptake by Shoot and Grain as Influenced by Age. *Plant and Soil* 55 : 215-224.
- Rasti Saraswati, Edi Santosa, dan Erny Yuniarti, 2006. *Organisme Perombak Bahan Organik dalam Pupuk Organik dan Pupuk Hayati*. Balai Besar Litbang Sumber Daya Lahan Pertanian. Badan Penelitian dan Pengembangan Pertanian, 2006.

- Ramesh, P., Mohan Singh, and Subha Rao, A. 2005. Organic Farming : Its Relevance to the Indian Context. *Current Science Journal*. Vol. 88 (4).
- Salazar, Robert C. 2005. Social and Institutional Opportunities and constraints of organic agriculture in the Philipines. Conference on International Agricultural Research for Development. Stuttgart-Hohenheim, October 11-13, 2005.
- Salem, A. K. M., 2006. Effect of Nitrogen Level, Plant Spacing and Time of Farmyard Manure Application on the Productivity of Rice. *Journal of Applied Sciences Research*. Vol. 2 (11) : 980-987.
- Salisbury, F. B. and Ross, C.W. 1992. *Fisiologi Tumbuhan. Sel : Air, Larutan dan Permukaan*. Jilid Satu. Penerbit ITB. Bandung.
- Sanati , B. E., Daneshiyan, J., Amiri, E., and Azarpour, E. 2011. Study of organic Fertilizers Displacement in Rice Sustainable Agriculture. *International Journal of Academic Research*. Vol.3 (2).
- Sanchez, 1993. *Sifat dan Pengelolaan Tanah Tropika*. Jilid II. Institut Teknologi Bandung.
- Sarwar, G., Hussain, N., Schmeisky, H., Suhammad, S., Ibrahim, M., and Ahmad, S. 2008. Efficiency of various Organic Redidues for Enhancing Rice-wheat Production under Normal Soil Conditions. *Pakistan Journal Bot*. Vol 40 (5) : 2107-2113.
- SAS. 2002. *Statistical Analysing System for Windows 9.0*. SAS Institute Inc., SAS Campus Drive, Cary, North Carolina, USA.
- Schenk, M.K. 2006. Nutrient Efficiency of Vegetable Crops. *Acta Horticultura Journal*. Vol.700 : 21-34.
- Schnitzer, M., 1991. Soil Organic Matter. *The Next 75 Year*. *Soils Science*. 41-58.
- Setiobudi, D, dan Sembiring, H. 2009. Tanggap pertumbuhan dan hasil padi tipe Baru terhadap pupuk makro dan mikro pada spesifik jenis tanah. *Prosiding Penelitian tanaman padi*. Balai Besar Penelitian Tanaman Padi. 2009.
- Silvaguru M and Palliwal K., 1993. Differential Al-tolerance in some tropical rice cultivar : Growth Performance. *Journal of Plant Nutrition*. Vol. 16 : 1705-1716.
- Singh, R. K. and Chaundhary, B.D. 1979. *Biometrical Methods in Quantitative Genetics Analysis*. Kalyani Publisher. New Delhi. 245 p.
- Singh, Y.V., Singh, B.B., Pavvi, S., and Singh, P.K. 2007. Impact of Organic Farming on Yield and Quality of Basmati Rice and Soil Properties. *Indian Agricultural Research Institute, New Delhi, India*.
- Sinha, M. K., 1971. Effect of straw application on yield and phosphorous nutrition of crops. *Plant and Soil Journal*. Vol. 43 (3) : 537-545.

- Sitompul, S. M. dan Guritno, B. 1995. Analisis Pertumbuhan Tanaman. Gadjah Mada University Press.
- Sirikul, A., Anuchita Moongngarm and Pheerayos Khaengkhan. 2009. Comparison of Proximate Composition, bioactive Compounds and Antioxidant Activity of Rice Bran and Defatted Rice Bran from Organic Rice and Conventional Rice. *Journal of Food Agricultural Industry*. Vol. 2 (4) : 731-743.
- Soemartono, 1986. Studies on Pulling Force as Drought Resistance Screening Method and Genetics of Upland Rice Root Characteristics. *Agricultural Science Journal*, Vol. 4 (3).
- Soerjantoko, R.N.E. 2010. Teknik Pengujian Mutu Beras Skala Laboratorium. *Buletin Teknik Pertanian* Vol. 15 (2) : 44-47.
- Stanhill, G. 1990. The comparative Productivity of Organic Agriculture. *Journal Ecosystems and Environment*. Vol. 30 (2) : 1-26.
- Stockdale, E. A., Lampkin, N.H., Hovi, M., Keatinge, R., Lennartsson, E.K.M., Macdonald, D.W., Padel, S., Tattersall, F.H., Wolfe M.S., and Watson, C.A. 2001. Agronomic and environmental implications of organic farming systems. *Advance Agricultural*. Vol.70 : 262-326.
- Stoskopf, N. C., 1981. *Understanding Crop Production*. Reston Publishing Company, Inc., Rston, Virginia A Prentice-Hall Company. USA.
- Subha, K. M., Chandrasekaran, B., Parasuraman, P., and Sivakumar, S.D. 2004. Performance of Scented Rice Variety Basmati 370 Under Organic Farming. *Madras Agricultural Journal*. Vol. 91 (7-12) : 353-358.
- Sudjana, 2001. *Metode Statistika*. Edisi ke-6. Tarsito Bandung. 508 hal.
- Surekha, K., Jhansilakshmi, V., Somasekhar, N, Latha, P.C. Kumar, R.M., Rani, N. S, Rao, K.V. and Viraktamath, B.C. 2011. Status of Organic Farming and Research Experiences in Rice. *Journal of Rice Research*. Vol.3 (1) : 23-35.
- Suriadikarta, D. A. dan Kasno, A. 2008. Kalibrasi P dan K pada lahan Sawah Intensifikasi untuk Tanaman Padi Berproduksi Tinggi/Hibrida. *Prosiding Seminar Nasional dan Dialog Sumberdaya Lahan Pertanian*. Bogor, 18-20 Nopember 2008.
- Sugiyanta, Rumawas, F., Chozin, M.A., Mugnisyah, W.Q., dan Ghulamahdi, M. 2008. Studi serapan hara N, P, K dan potensi hasil lima varietas padi sawah (*Oryza sativa* L.) pada pemupukan anorganik dan organik. *Bulletin Agronomi*. Vol. 36 : 196-203.
- Supijatno. 2012. *Adaptasi Padi Gogo terhadap Cekaman Ganda Di Lahan Kering*. Disertasi. Sekolah Pasca Sarjana. Institut Pertanian Bogor.
- Suryanto. 1995. *Ilmu Kesuburan Tanah*. Program Studi Ilmu-ilmu Pertanian Fakultas Pasca Sarjana UGM. Yogyakarta.

- Susanto, U., Daradjat, A.A., dan Suprihatno, B. 2003. Perkembangan Pemuliaan Padi Sawah Di Indonesia. *Jurnal Litbang Pertanian*, Vol. 22 (3).
- Suwarno, Suro A.B., dan Harahap, Z. 1982. Hubungan antara Kadar Amilosa Beras dengan Rasa Nasi. *Penelitian Pertanian*, Vol.2 (1) : 33-35.
- Syliva, D. M and Williams, S.E. 1992. Vesicular-arbuscular mycorrhizae and environmental stress. In : *Mycorrhizae in Sustainable Agriculture : proceedings of a symposium, 31 Oct 1991*, G. J. Bethlenfalvay and R. G. Linderman, Editors. American Society of Agronomy : Crop Science Society of America : Soil Science Society of America : Denver, CO. p. 101-124.
- Taiz, L. and Zeiger, E. 2002. *Plant Physiology*. Third Edition. Sinauer Associates, Inc. Publishers. Massachusetts.
- Takebe, M. and Yoneyama, T. 1989. Measurement of leaf color scores and its implication to nitrogen nutrition of rice plants. *Japanese Agricultural Research Quarterly*. Vol. 23 : 86-93.
- Totowarso. 1982. Analisis Jalinan Hubungan Antar Peubah Penelitian. Bahan Seminar dalam forum seminar Berkala. Fakultas Pertanian Universitas Pajajaran. Bandung.
- Tran, D. V. ?. *World Rice Production Main Issues and Technical Possibilities*. *Journal Options Mediterraneanes*, Vol. 24 (2).
- Trikoesoemaningtyas. 2001. Fisiologi dan Pewarisan Sifat Efisiensi Kalium dalam keadaan Tercekam Aluminium pada Padi Gogo (*Oryza sativa* L.). Disertasi. Program Pasca Sarjana. Institut Pertanian Bogor.
- Turner, F.T. and Jund, M.F. 1994. Assessing the nitrogen requirements of rice crops with a chlorophyll meter method. *Australian Journal of Experimental Agriculture*. Vol. 34 : 1001-1005.
- Uexkull, H. R. V. 1993. *Aspects of Fertilizer Use in Modern, High-Yield Rice Culture*. IPI-Bulletin No.3 (3rd revised edition). International Potash Institute. PO. Box 1609 Switzerland
- Vaarst, M. 2010. Organic Farming as A Development Strategy : Who are Interested and Who are not ? *Journal of Sustainable Development*. Vol. 3 (1).
- Varinruk, B. 2005. *Organic Rice Farming in northern Thailand*. International Rice Research Institute. Los Banos, Laguna, Philipina.
- Varvel, G.E., Wilhelm, W.W., Shanahan, J.F., and Schepers, J.S. 2007. An algorithm for corn nitrogen recommendations using a chlorophyll meter based sufficiency index. *Agronomy Journal*. Vol. 99 : 701-706.
- Veeresh, Desai B. K., Vishwanatha, S., Anilkumar, S.N., Satyanarayan Rao and Halepyati, A.S. 2011. Growth and Yield of Rice (*Oryza sativa* L.) Varieties as Influenced by Different Methods of Planting under Aerobic Method of

Cultivation. *Research Journal of Agricultural Sciences*. Vol. 2 (2) : 298-300.

Vergara, B.S. 1980. Rice Plant Growth and Development. In : B.S. Luh (ed). Rice : Production and Utilization. AVI Publishing Company. Westport, Connection. P. 75-86.

Von Caemmerer, S. and Edmondson, D.L. 1986. Relationship between steady-state gas exchange, in vivo ribulose biphosphate carboxylase activity and some carbon reduction cycle intermediates in *Raphanus sativus*. *Australian Journal of Plant Physiology*, Vol. 13 : 69-88.

Willet, I. R. 1991. The Reduction Dissolution of Phosphate Ferrihydrite and Sterengite. *Australian Journal Soil Res.* Vol. 23 : 237-244.

Wu, L. and Ma, L.Q. 2001. Effects of Sample Storage on Biosolids Compost Stability and Maturity Evaluation. *Journal Environmental Quality*. Vol.30 : 222-228.

Yoshida, S. 1981. *Fundamentals of Rice Crop Science*. The International Rice Research Institute. Los Banos, Laguna, Philippines

Yoshihashi, T., Huong, N.T.T., and Inatomi, H. 2002. Precursors of 2-acetyl-1-pyrroline, a potent flavor compound of an aromatic rice variety. *Journal Agricultural Food Chemical*. Vol. 50 : 2001-2004.

Zaki, N., Gomaa, A. M., Galal, A., and Farrag, A.A. 2009. The Associative Impact of Certain Diazotrophs and Farmyard Manure on Two Rice Varieties Grown in a Newly Cultivated Land. *Research Journal of Agriculture and Biological Sciences*. Vol. 5(2) : 185-190.

Zucconi, F., Pera, A., Forte, M., and Debertoldi, M. 1981. Evaluating Toxicity of Immature Compost. *Biocycle Journal*. Vol. 22 : 54-57.