

VI. DAFTAR PUSTAKA

- Adimihardja, A.2006, 'Usaha Mempertahankan Multifungsi Pertanian sawah/Effort in Maintainingthe Multifunctionality of Paddy Farming', *Prosiding Seminar Multifungsi dan Revitalisasi Pertanian*.Balai Penelitian Tanah,Bogor,27-28 Juni 2006.
- Adiningsih, 2005,'Peranan Bahan Organik Tanah dalam Meningkatkan Kualitas dan Produktivitas Lahan Pertanian', dipresentasikan pada Kongres Nasional II Masyarakat Pertanian Organik Indonesia di Jakarta, 21-22 Desember 2005.
- Agus F.X., Suyono dan Hermawan, R. 2006,Analisis Kelayakan Usahatani Padi pada Sistem Pertanian Organik di Kabupaten Bantul. *Jurnal Ilmu Pertanian*, 2.2: 134-141.
- Ardiwinata, A.N. dan Djauli, M. 1994, Dampak Penggunaan Insektisida Organochlorin dimasa Silam di Daerah Jawa Barat', *Prosiding Simposium Penerapan PHT*. Balai Penelitian Lingkungan Pertanian, pp. 313-317.
- Ardiwinata, A.N., Harsanti,E.S., Jatmiko dan Soejitno,J., 2002. Residu Insektisida, Mikroba dan Makrozoobentis di Ekosistem Tanaman Padi di Jawa Tengah dalam Soelitno, J.I.J.Sasa, Hermanto (eds), *Membangun Sistem Produksi Tanaman Pangan Berwawasan Lingkungan*. Pusat Litbang Tanaman Pangan. Bogor.pp.109-116.
- Arslan, G. dan Akkaya, C., 2001, 'Basic Problems in Ggroundwater Ssources and Interactions Between Surface and Groundwater',*Groundwaters and Environment Symposium, 21-23 March*, Izmir, pp 45-54.
- Arsyad, S. 2005. *Konservasi Tanah dan Air*. IPB Press,Bogor.
- Badan Pusat Statistik, 1991-2012. Statistik Indonesia (dari tahun 1991 s.d.2012) Badan Pusat Statistik Jakarta.
- Badan Pusat Statistik Kabupaten Deli Serdang.2013.Pertumbuhan Ekonomi Kabupaten Deli Serdang Tahun 2008-2013, Deli Serdang,Sumatera Utara.
- Balai Penelitian Tanah, 2004,*Petunjuk Teknis Pengamatan Tanah*. Balai Penelitian Tanah. Pusat Penelitian dan Pengembangan Tanah dan Agroklimat. Badan Penelitian dan Pengembangan Pertanian. Departemen Pertanian.Departemen Pertanian. Jakarta.pp.78-83.
- Balai Penelitian Tanah, 2005. *Petunjuk Teknis Analisis Kimia Tanah, Tanaman, Air dan Pupuk*. Balai Penelitian Tanah. Badan Penelitian dan Pengembangan Pertanian. Departemen Pertanian. Jakarta.pp.121-136.

- Bateman,R.,2008, 'Environmental Contaminan with Pesticides'. viewed 23 Juni 2009,<[http:// www. wikipedia/about.htm](http://www.wikipedia/about.htm)>.
- Bintoro,H.M.H., Hakmal Yani dan Saraswati, R., 2007. 'Efek Pupuk Hayati dan Organik terhadap Pertumbuhan dan Produksi Padi'. *Prosiding Simposium Peran Agronomi dalam Peningkatan Produksi Beras dalam Program Ketahanan Pangan*, pp 73-77.
- Bouwman, A.F. 1990, *Exchange of Greenhouse Gases Between Terrestrial Ecosystems and The Atmosphere*,in Bouwman AF (ed). Soils and the Greenhouse Effects. John Wiley & Sons, Chichester, New York, Brisbane, Toronto, Singapore, pp 61-127.
- Brady,N.C.and Weil,R.R.1999, *The Nature and Properties of Soils*, 12th edition, Prentice Hall,Upper Saddle River,New Jersey, pp 468-469.
- Cobb, D. R., Feber, A. Hopkins, L. Stockdale, T. O'Riordan, B., Clements, L. Firbank,1999, 'Integrating the environmental and Economic Consequences of Converting to Organic Agriculture': Evidence from a Case Study, *LandUse Policy* 16:207–221.
- Conrad, R., Schutz, H., and Babbel, M. 1987, Temperature Limitation of Hydrogen Turn Over and Methanogenesis in Anoxic Paddy Soils. *FEMS Microbiology Ecology*, 45:281-289.
- Conrad, R. and Schutz, H. 1988,*Methods of Studying Methanogenic Bacteria and Methanogenic Activities in Aquatic Environments*,in Austin B. (ed).*Methods in Aquatic Bacteriology*, John Wiley & Sons, Chichester, New York, Brisbane, Toronto, Singapore, pp 301-343.
- Conrad, R. 1989, *Control of Methane Production in Terrestrial Ecosystems*. in Andreae MO and Schimel DS (ed).*Exchange of Trace Gases between Terrestrial Ecosystems and the Atmospher.*. John Wiley & Sons, Chichester, New York, Brisbane, Toronto, Singapore, pp 301-343.
- Condrad, R. and Klose, M.2006, *Dynamics of the Methanogenic Archaeal in Anoxic Soil upon Addition of Straw*, Max-Planck-Institute for Terrestrial Microbiology, Germany.
- Daradjat, A.A. &Utami, P.K. 1993,'Kebutuhan Hara N Padi di Lahan Sawah Irigasi', *Prosiding Simposium Penelitian Tanaman Pangan III*.Bogor.
- Darmawijaya, M.I. 1997,*Klasifikasi Tanah, Dasar Teori Bagi Peneliti dan Pelaksana Pertanian di Indonesia*, Universitas Gadjah Mada Press, Yogyakarta.
- Datta,A.,Nayak,D.R.,Sinhababu and Adhya,T.K.2009, Methane and Nitrous Oxide Emmisions from an Integrated Rainfed Rice-Fish Farming System of Eastern India.Agric., *Ecosystem and Environment*,129:228-237.

Doran,J.W., andParkin, T.B.1999, *Quantitative Indicators of Soil Quality : A Minimum Data Set*in Doran, J.W.and A.J.Jones (ed).*Methods for Assessing Soil Quality*.Soil Science Society of America Inc.Wisconsin.

Departemen Pertanian. 2002. *Prospek Pertanian Organik di Indonesia*. diakses 5 Mei 2011.<<http://www.litbang.deptan.go.id/berita/one>>.

Ditjen Tanaman Pangan.2006, *Pestisida Terdaftar Pertanian dan Kehutanan*. Direktorat Sarana Produksi, Ditjen Tanaman Pangan, Jakarta, Departemen Pertanian Republik Indonesia.

Doran,J.W., andParkin, T.B.1999, *Quantitative Indicators of Soil Quality : A Minimum Data Set*in Doran, J.W.and A.J.Jones (ed).*Methods for Assessing Soil Quality*.Soil Science Society of America Inc.Wisconsin.

Domenico, P.A. and Schwartz,F.W.1990. *Physical and Chemical Hydrogeology*, John Wiley and Sons, New York.

Doran,J.W., andParkin, T.B.1999, *Quantitative Indicators of Soil Quality : A Minimum Data Set*in Doran, J.W.and A.J.Jones (ed).*Methods for Assessing Soil Quality*.Soil Science Society of America Inc.Wisconsin.

Djaenudin, D., Marwan H., Subagyo, H., Mulyani, A., dan Suharta, N. 2003, *Kriteria Kesesuaian Lahan untuk Komoditas Pertanian*. Balai Penelitian Tanah. Badan Litbang Pertanian.

Elliot, F.F., Papendick, R.I. and Parr, J.F. 1984,*Summary of Organic FarmingSymposium*,in D.M. (ed).*Organic Farming*. ASA Special PublicationNumber 46. Madison, WI: American Society of Agronomy, Crop Scienceof America, Soil Science Society of America.

Evanylo, G.,Sherony, C.,and Spargo, J. 2008. *Soil and Water Environmental Effects of Fertilizer- Manure- and Compost-Based Fertility Practices in an Organic Vegetable Cropping System*. Journal of Agriculture, Ecosystems and Environment 127, 50–58.

Fardiaz S.1995, *Polusi Air dan Udara*. Kanisius, Jakarta.

Foth, H. D. 1988, *Dasar-dasar Ilmu Tanah*.Gadjah Mada University Press. Yogyakarta. 762 hal.

Gliessman, S.R. The Framework for Conversion. In Gliessman, S.R and M. Rosemery (eds.). 2010. *The Conversion to Sustainable Agriculture, Principles, Process and Practices*. CRC Press, New York.

Hafsah, M.D. 2005. 'Potensi Peluang dan Strategi Pencapaian Swasembada Beras dan Kemandirian Pangan Nasional',*Prosiding Seminar Padi Nasional Pekan Padi Nasional II 15-19 Juli 2004*.

- Hardjosoemantri, K. 2005. Hukum Tata Lingkungan. Gadjah Mada University Press. Yogyakarta. pp 91-640.
- Hardjowigeno, S. 2003,*Ilmu Tanah*, Akademika Presindo, Jakarta.
- Harsanti,E.S. 2008,‘Dampak Penggunaan Insektisida Terhadap Kualitas Lingkungan Fisik dan Produk Bawang Merah serta Perilaku Petani Dalam Usahatani Bawang Merah (Desa Srigading Kecamatan Sanden,Kabupaten Bantul)’, Tesis MSi., Universitas Gadjah Mada,Yogyakarta.
- Harmer, E.D. and Mark Anslow.2008, Ten Reason Why Organic can Feed The World.*Sturminster Newton* ,38.Iss.2:43-48.
- Hermanto, Bambang. 2010,Analisis Komperatif Pendapatan Petani Organik dan Petani Anorganik. *Kultura*, 11:1-11.
- Hossain, T.S., Hideki S., Hideto,U.,and Sheikh, M.R. 2007, ‘Adoption of Organic Rice For Sustainable Development in Bangladesh’. *Journal of Organic Systems*, 2(2) viewed18 January 2007,<[http:// www. elsevier. com/locate/agee/2008/10/05](http://www.elsevier.com/locate/agee/2008/10/05)>.
- Inradewa, Didik. 2008,‘Kontroversi Isu Pemanasan Global dalam Penyediaan Pangan di Indonesia’. *Prosiding pada Dies Natalis Fakultas Pertanian Universitas Gadjah Mada*, Yogyakarta,hal.70-95.
- Inubushi, K., Hori, K., Matsumoto, S. and Wada, H. 1997, Anaerobic Decompositionof Organic Carbon in Paddy Soil in Relation to Methane Emission to theAtmosphere,*Water Science Technology*. 36(6-7):523-530.
- IFOAM.2002,IFOAM Basic Standars for Organic Production and Processing International Federation of Organic Agriculture Movements,Tholey-Theley,Germany.
- IRRI. 1984, Organic Matter and Rice. International Rice Research Institute, Los Banos, Laguna, Philippines,20p.
- IRRI. 1988, Wet Topsoil Sampling. International Rice Research Institute.Los Banos, Laguna, Philippines,14p.
- IRRI. 1988, Wet Topsoil Sampling. International Rice Research Institute.Los Banos, Laguna, Philippines,14p.
- Isnaini,M.2006,*Pertanian Organik Untuk Keuntungan Ekonomi & Kelestarian Bumi*, Kreasi Wacana, Yogyakarta.
- Karama,Syarifuddin.1994,‘Pembangunan Pertanian yang Efektif dan Berkelanjutan Menyongsong Tahun 2020’,dipresentasikan pada Seminar Kebijakan Pendidikan Tinggi, Pengembangan IPTEK dan Transformasi Sosial, Dies Natalis ke-45 UGM di Yogyakarta, 20-21 Desember 1994.

- Kartasapoetra, G., Kartasapoetra,A.G., dan Mul Mulyani Sutedjo. 2005,*Teknologi Konservasi Tanah dan Air*, Rineka Cipta, Jakarta.
- Khalil, M.I., and Inubushi, K. 2007, Possibilities to Reduce Rice Straw-Induced Global Warming Potential of a Sandy Paddy Soil by Combining Hydrological Manipulations and Urea-N Fertilizations. *Soil Biology Biochemistry*,39:2675-2681.
- Khalil,M.A.K., Shearer,J.M., Rasmussen, A.R., Xu Li, and Luan Liu Jin. 2008, Methane and Nitrous Oxide Emissions from Subtropical Rice Agriculture in China, *Journal of Geophysical Research*,Vol.113.
- Khomarudin, M.R., Ahmad B., dan Idung R. 2002, 'Identifikasi Neraca Energi di Beberapa Penggunaan Lahan untuk Deteksi Daerah Potensi Kekeringan di Surabaya, Gresik, dan Sidoarjo', diakses pada 28 Juli, 2009, <<http://oc.its.ac.id/amblifile>>.
- Kristiansen,Paul, Acram,T. and Jhon Reganold. 2006,'Organic Agriculture: A Global Perspective'. CSIRO Publishing. viewed 2 February 2009, <<http://www.cabi.org>>.
- Kurnia,U.,J.,Sri Adiningsih dan Abdurachman,A.2003,'Strategi Pencegahan dan Penanggulangan Pencemaran Lingkungan Pertanian'.*Prosiding pada Seminar Nasional Peningkatan Kualitas Lingkungan dan Produk Pertanian,Pusat Penelitian dan Pengembangan Tanah dan Agroklimat*, Bogor,hal.41-61.
- Las, Irsal,Subagyono, K. dan Setiyanto, A.P. 2006, Isu dan Pengelolaan Lingkungan Dalam Revitalisasi Pertanian. *Jurnal Penelitian dan Pengembangan Pertanian*, 25(3).
- Liebig,M.A.and Doran,J.W.1999,Impact of Organic production Practices on Soil Quality Indicators.*Journal of Environmental Quality*,28:1601-1609.
- Lockie,S.,K.Lyons and Lawrwnce, G.2000,Constructing Green Foods : Corporate Capital,Risk and Organic farming in Australia and New Zealand. *Agriculture and Human Values*,17:315-322.
- Lytton-Hitchins,J.A.,Koppi,A.J.and McBratney,A.B.1994,The Soil Condition of Adjacent Biodynamic and Conventionally Managed Dairy Pastures in Victoria,Australia.*Soil, Use and Management*,10:79-82.
- Lu, Y., Arah, J.R.M., Wassmann, R. and Neue, H.U. 2000, Simulation of Methane Production in Anaerobic Rice Soils by a Simple Two-Pool Model. *Nutrient Cycling in Agroecosystems*,58:277-283.
- Makarim, A.K., Setyanto, P. and Fagi, A.M. 1996,'Suppressing Methane Emission from Rainfed Lowland Rice Field in Jakenan, Central Java'. *Paper presented at the International Symposium on Maximizing*

Sustainable Rice Yield through Improved Soil and Environmental Management. Khon Kaen,Thailand.

- Mander, U., Mikk, M.and Kulvik,M. 1999, Ecological and Low Intensity Agriculture as Contributors to Landscape and Biological Diversity, *Landscape and Urban Planning*,46 (1999):169–177.
- Mangkoediharja,S.1999,*Ekotoksikologi Keteknikan*, Surabaya, Jurusan Teknik Lingkungan-FTSP, ITS.
- Mariyono, J. 2002. Valuasi Ekonomi Kehilangan Manfaat Bersih Akibat Biaya Kesehatan Penggunaan Pestisida Kimia. *Jurnal Manusia dan Lingkungan*9(1), 32-39.
- Mariyono, J. 2005, Penggunaan Input Kimia Pertanian di Indonesia Periode 1970-1989: Signifikankah Sumbangannya pada produksi Beras. *Jurnal Manusia dan Lingkungan* 13(1), 41-49.
- Mizuno, S. 1996. ‘Integrated Soil Building: Concept and Practices,in:Organic Farming and Sustainable Agriculture’.*Proceedings of the Nat. Seminar Held at UAS, Bangalore (India)*.G.K. Veresh, K. Shivashankar, M.A. Singalachar (eds),p.76-89, Ass.for Promotion of Organic Farming, Bangalore,India.
- Mulyadi.2000, ‘Price Policies in Central Java,Ind.Impact on Demand for Urea Fertilizer in Paddy Production and The Resulting Nitrate Contamination’, Ph.D Dissertation,University Putra Malaysia, Malaysia.
- Neue, H.U., and Roger,P.A. 1993,*Potential of Methane Emission in Major Rice Ecologies.* pp. 65-92 in R.G. Zepp (ed). *Climate Biosphere Interaction:Biogenic Emissions and Environmental Effects of Climate Change.* John Wiley & Sons, London.UK.
- Neue, H.U., & R.L. Sass. 1994, Trace Gas Emission from Rice Fields. *EnvironmentScience Research* 48:119-147.
- Naidu. 1981,‘Studies on the Appropriate Proportion of Organic and Chemical Fertilizers’. Thesis. Tannil Nadiu Agriculture, University Coimbatre.
- Nguyen,M.L.,Haynes,R.J.and Goh,K.M.1995,Nutrient Budgets and Status in Three Pairs of Conventional and Alternative Mixed cropping Forms in Cantenbury, New Zealand.*Agriculture,Ecosystem and Environment*,52.149-162.
- Notodarmojo,S.2005,*Pencemaran Tanah dan Air Tanah.* ITB, Bandung.
- Pabundu,T.M.2005.*Metode Penelitian Geografi*,PT Bumi Aksara,Jakarta.
- Patil, S., Reidsma,P., Shah, P., Purushothaman, S., and Wolf, J. 2011, Comparing Conventional and Agriculture in Karntaka, India : Where and when can organic farming be sustainable?, *Land Use Policy* xxx (2012) xxx-xxx, pp 1-12.

Pemda Kabupaten Deli Serdang Propinsi Sumatera Utara online, diakses pada 28 September 2007, <<http://www.deliserdang.go.id>>.

Peraturan Pemerintah No.82 Tahun 2001, tentang Pengelolaan Kualitas Air dan Pengendalian Pencemaran Air, Jakarta.

Pimentel, David, Acquay H., Biltonen, M., Rice, P., Silva, M., Nelson, J., et al., 1993. Assessment of Environmental and Economic Impacts of Pesticide Use. *Chapman & Hall, New York, London*, pp 47-84.

Prasetyo, B.H., Sri Adiningsih, J., Subagyono, K. dan Simanungkalit, R.D.M. 2004, 'Mineralogi, Kimia, Fisika, dan Biologi Tanah Sawah', dalam Agus, F., Adimihardja, A., Hardjowigeno, S., Fagi, A.M. dan Hartatik, W (ed). *Tanah Sawah dan Teknologi Pengelolaannya*, Pusat Penelitian dan Pengembangan Tanah dan Agroklimat, Bogor, hal 29-82.

Prawirowardoyo, S., Rosmarkam, S., Shieddieq, D. dan Hidayat, M.S. 1987, *Panduan Analisis Kimia Tanah*, Fakultas Pertanian Universitas Gadjah Mada, Yogyakarta.

Pusat Penelitian Tanah dan Agroklimat (Puslittanak). 1993, *Petunjuk Teknis Evaluasi Lahan*, Puslittanak BPPP Departemen Pertanian, Bogor.

Rachmawati, N. 2003. Analisis Fungsi Keuntungan Usahatani Padi Secara Organik di Kabupaten Bantul. Tesis M.Si., Universitas Gadjah Mada, Yogyakarta.

Reganold, J.P., Glover, J.D., Andrews, P.K. and Hinman, H.R. 2001, Sustainability of Three Production System. *Nature*, 410:926-930.

Rennenberg H, Wassmann R, Papen H, and Seiler W. 1992, Trace gases exchange in rice cultivation, *Ecological Bulletins (Copenhagen)*, 42:164-173.

Risvansuna, 2003. Studi Komparatif Usaha Tani Secara Organik dan Non Organik di Kabupaten Bantul. *Agr. UMYXI*(2). 86-95.

Rosmarkam, A. dan Yuwono, W.N., 2009, *Ilmu Kesuburan Tanah*, Kanisius. Yogyakarta.

Rossi, R. and Nota, D. 1999. Nature and Landscape Production Potentials of Organic Types of Agriculture: a Check of Evaluation Criteria and Parameters in Two Tuscan Farm-Landscapes. *Agriculture, Ecosystem and Environment*, 77 (2000):53-64.

Rochayati S., Mulyadi dan Adiningsih, J.S. 2003, 'Penelitian Efisiensi Penggunaan Pupuk di Lahan Sawah'. *Prosiding pada Lokakarya Nasional Efisiensi Penggunaan Pupuk V, 12-13 November 2003*, Puslitanak. Bogor.

Rudd J.W.N. and Taylor C.D. 1980, Methane Cycling in Aquatic Environments, *Advances Aquatic Microbiol*, 2:77-150.

- Sanches, P.A. 1993,*Sifat dan Pengelolaan Tanah Tropika*.Jilid 2. ITB, Bandung.
- Sarkar, S., Singh, S.R. and Singh, R.P., 2003, The Effect of Organic and Inorganic Fertilizers on Soil Physical Condition and the Productivity of a Rice-Lentil Cropping Sequence in India,*Journal of Agricultural Science*,140: 419-425
- Schutz, H., Seiler,W. and Conrad,R. 1989, Influence of Soil Temperature on Methane Emission from Rice Paddy Fields. *Biogeochemistry*,11: 77-95.
- Schutz H, Seiler W, and Rennenberg W. 1990,'Soil and Land Use Related Sources and Sinks of Methane (CH₄) in the Context of the Global Methane Budget',in Bouwman, A.F. (ed), *Soils and the Greenhouse Effects*. John Wiley & Sons, Chichester, New York, Brisbane, Toronto, Singapore, pp. 269-285.
- Scialabba N.E.,et.al., 2010, Organic agriculture and climate change. *Journal of Renewable Agriculture and Food Systems*: 25(2):158–169.
- Setyanto, P., dan Hidayat, A. 2001, Identification of Less Greenhouse Gases Emissions Technologies in Agricultural Sector (Rice Cultivation). in *Identification of LessGreenhouse Gases Emission Technologies in Indonesia*. Ministry of Environment, Republic of Indonesia, pp. 6.1-6.14.
- Setyanto, P., Rosenani, A.B.,Boer,R., Fauziah,C.I. and Khanif,M.J.2004, The effect of rice cultivars on methane emission from irrigated rice field. *Indonesian Journal of Agricultural Science*, 5(1):20 31.
- Setyanto, P, and Abubakar,R. 2005, Methane Emission from Paddy Field as Influenced by Different Water Regimes in Central Java.Indonesian *Journal of Agricultural Science*, 6(1):1-9.
- Setyanto,P.and R. Abubakar.2006. Evaluation of Methane Emission and Potential Mitigation from Flooded Rice Field. *Jurnal Litbang Pertanian*, 25 (4): 139-148.
- Smith P., Martino,D., Cai Z., Gwary D., Janzen H., Kumar P., McCarl B., Ogle S., O'Mara F., Rice C., Scholes B., Sirontenko O., Howden M., McAllister T., Pan, G., Romanenkov, V., Schneider, U., Towprayoon S., Wattenbach M., and Smith Jo.2008.Greenhouse Gas Mitigation in Agriculture,*Philosophical Transactions of The Royal Society, Biological Sciences*, 363 (1492) : 789–813.
- Soeprtohardjo. 1983, *Suatu Cara Penilaian Kemampuan Wilayah*, PUSPICS, Yogyakarta.
- Soepardi, G. 1983, *Sifat dan Ciri Tanah*. Institut Pertanian Bogor, Bogor.
- Soil Survey Staff. 1998,*Keys to Soil Taxonomy*, United State Departement ofAgriculture.

- Stolton, S., Geier,B. and Jeffrey,A.2000, Biodiversity and Organic Agriculture, *Ecology and Farming*, 23:22–25.
- Stolze,Piorr,M.A., Haring,A. and Dabbert,S.2000, *The Enviromental Impact of Organic Farming in Europe,Organic Farming in Europe’,Economic and Policy*, University of Hohenheim,Germany,(6):1437-6512.
- Subrata dan Kusuma, R. 2003. Koreksi terhadap Cara Pengukuran Ubinan Tanaman Padi. Buletin Teknik Peertanian Vol. 8 Nomor 1, 2003. Pustaka. Bogor.
- Sudadi,U.2002,Produksi Padi dan Pemanasan Global : Tanah Sawah bukan Sumber Utama Emisi Metan, diakses pada 10 Februari 2009,<<http://tumoutou.net>>.
- Sugiharto, Eko, 2007. Studi Analisis Dampak Residu Pestisida pada Komoditas Pertanian di Propinsi Daerah Istimewa Yogyakarta dalam Kemajuan Terkini Penelitian. Klaster Agro,Yogyakarta,hal 222-237.
- Suhartini.2006,‘Kajian Keberlanjutan Sistem Usahatani Padi Semi Organik di Kabupaten Sragen’,Disertasi Dr. Universitas Gadjah Mada, Yogyakarta.
- Sulaeman Dede, 2009. Participatory Organic Guarantee System: Cara Lain Pemberian Jaminan Produk Pangan Organik, Direktorat Pengolahan Hasil Pertanian, Ditjen PPHP-Departemen Pertanian, Jakarta.
- Sullivan, P. 2004, Sustainable Soil Management. National Sustainable Agriculture Information Service, viewed5 December 2006 from <[http:// www. attra. ncat.org](http://www.attra.ncat.org)>
- Sutanto,R. 2002,Penerapan Pertanian Organik; Pemasyarakatan dan Pengembangannya,Kanisius, Jakarta.
- Sutardi, A., Musofie, Nurhidayat dan Soeharsono. 2002,‘Pengkajian Integrasi Usahatani Tanaman Pangan dan Ternak Ruminansia di Agroekologi Lahan Sawah Tadah Hujan’, disampaikan pada *Seminar Nasional Usahatani Ramah Lingkungan di Loka Jakenan*, Pati Jawa Tengah, tanggal 11 Desember 2002, Puslitanak, Bogor.
- Suyono, Agus,F.X. dan Hermawan,R. 2006,Analisis Kelayakan Usahatani Padi Pada Sistem Pertanian Organik di Kabupaten Bantul, *Jurnal Ilmu-ilmu Pertanian*,2(2):134-141.
- Taiwo,L.B. and Oso, B.A., 1997, The Influence of some Pesticides on Soil Microbial Flora in Relation to Change in Nutrient Level, Rock Phosphate Solubilization and P Release under Laboratory Condition,*Agriculture,Ecosystems and Environment*,65:59-68.

- Tandjung,S., 2001, Ekologi, Ekosistem, Lingkungan dan Sumberdaya, Pidato Pengukuhan Jabatan Guru Besar pada Fakultas Biologi, Universitas Gadjah Mada, Yogyakarta.
- Tarumingkeng, R., 1997, Toksikologi Insektisida. Universitas Kristen Krida Wacana, Jakarta.
- Taylor,M.E.and Michael,D.M.2008,Effects of Agri-Environment Schemes in a Long-Term Ecological Time Series.*Agriculture,Ecosystems and Environment*,130: 9-15.
- Tien, 2011. Analisis Efisiensi Teknis Usahatani Padi Sawah Aplikasi Pertanian Organik (Studi Kasus Di Desa Sumber Ngepoh, Kecamatan Lawang) Kabupaten Malang MT 2009 – 2010. *Jurnal El-Hayah*,1(4).
- Triyono, A.,Purwanto dan Budiyo,2013. Efisiensi Penggunaan Pupuk –N untuk Pengurangan Kehilangan Nitrat pada Lahan Pertanian,diakses 20 Agustus 2014, <<http://www.eprints.undip.ac.id>>.
- Undang-Undang Republik Indonesia. 1997, Nomor 23 Tahun 1997 tentang Pengelolaan Lingkungan Hidup, Jakarta,Kementerian Negara Lingkungan Hidup Republik Indonesia.
- Utami, S.N.H. dan Handayani, S. 2003. *Sifat Kimia Entisol Pada Sistem Pertanian Organik*. Jurnal Ilmu Pertanian Vol. 10 No. 2: 63-69.
- Van Der Gon H.A.C.Denier and Neu, H.U.1995, Influence of Organic Matter Incorporation on the Methane Emission From Wetland Rice Field.Agriculture University Wageningen,Netherlands,*Global Biogeochemical Cycles*,9.(1).pp.11-22.
- WHO, 1997, The WHO Recommended Classification of Pesticides by Hazard and Guidelines to Classification 1996-1997. UNEP,ILO,WHO.64p.
- Wassmann, R., R.S. Lantin, H.U. Neue, L.V. Buendia, T.M. Corton, & Y. Lu. 2000.Characterization of Methane Emissions from Rice Fields in Asia. III.Mitigation Option and Future Research Needs. *Nutrient Cycling Agroecosystems*. 58 :23-36.
- Watanabe, I., & C. Furasaka. 1980, Microbial Ecology of Flooded Rice Soils. p.125-168 in Alexander, M. (ed.). *Advances in Microbial Ecology*, 4. PlenumPublishing Corporation.
- Wihardjaka, A., P. Setyanto, dan A.K. Makarim. 1999, 'Emisi Gas Metan dari Berbagai Varietas Padi'. Laporan Tahunan Lokal Penelitian Tanaman Pangan Jakenan.
- Wihardjaka,A. dan Abdurachman,S.2007,*Dampak Pemupukan Jangka Panjang Padi Sawah Tadah Hujan terhadap Emisi Gas Methana*.Pusat Penelitian dan Pengembangan Tanaman Pangan.PP26/03.pp.200-205.

- Wihardjaka,A.2011,'Pengaruh Jerami Padi dan Bahan Penghambat Nitrifikasi Terhadap Emisi Gas Rumah Kaca (Metana dan Dinitrogen Oksida) Pada Ekosistem Sawah Tadah Hujan di Kabupaten Pati, Jawa Tengah',Disertasi Dr.,Universitas Gadjah Mada,Yogyakarta.
- Widiarta A., Adiwibowo,S. dan Widodo.2011,*Analisis Keberlanjutan Praktik Pertanian Organik di Kalangan Petani*. Jurnal Transdisiplin Sosiologi, Komunikasi, dan Ekologi Manusia Vol. 5, No. 1, p.73
- Wijetilleke,L.andKarunaratne,S.A.R.1992,*Air Quality Management, Considerations for Developing Countries*. The World Bank.Washington D.C.
- Xie, Wang Xiarong, Ding Zhuhang and Yang Yaping.2002. Critical Impact Assessment of Organic Agriculture. *Journal of Agricultural and Environmental Ethics*,16:297-311.
- Yagi, K, and K. Minami. 1990, Effect of organic matter application on methane emission from some Japanese paddy fields. *Soil Science Plant Nutrition*, 36:599-610.
- Yagi, K., Minami, K. and Breitenbeck, G.R. 1990,'Emission and Production of Methane from Paddy Fields'. *Transactions of the 14th International Congress of Soil Science,Vol. II*, International Society of Soil Science, Kyoto, p. 238-243.
- Yunus,Hadi Sabari,1991,*Konsepsi Wilayah dan Prinsip Pewilayahan*, PT Hardana Ekacitra Tunggal.Yogyakarta.
- Yunus, Hadi Sabari, 2007,'Pendekatan Utama Geografi : Acuan Khusus pada Pendekatan Keruangan, Ekologis dan Kompleks Wilayah', disampaikan pada Ceramah Studium General Jurusan Geografi, 24 Maret 2004,Universitas Negeri Semarang, Semarang.
- Zehnder AJB, and Stumm W. 1988,'Geochemistry and Biogeochemistry of Anaerobic Habitats'. inZehnder AJB (ed), *Biology of Anaerobic Organisms*, John Wiley & Sons, Chichester, New York, Brisbane, Toronto, Singapore, pp. 1-38.
- Zhengfei,G.,Afons,O.L.,Ada,W. and Ruud,H.2004,Damage Control Inputs:a Comparison of Conventional and Organic Farming Systems. *European Review of Agricultural Economics*.32(2).167-189.
- Zhu,Y., Chen,H., Fan,J., Wang,Y., Li,Y., Chen,J.,et al. 2000,Genetic Diversity and Disease Control in Rice.*Natural*,406:718-722.
- Zou Jianwen, Shuwei Liu, Yannei Qin. Gen Xing Pan, and Doweizhu.2009, Sewage Irrigation Increased Methane and nitrous Oxide Emmisions from Rice Paddies in Southeast China.*Agriculture Ecosystem Environment*,129: 516-522.