

DAFTAR PUSTAKA

- Ar-Riza dan Jumberi, 2008. Padi di lahan rawa Lebak dan Peranannya dalam Sistem Produksi Padi Nasional, Padi Inovasi Teknologi Produksi. Balai Besar Penelitian Tanaman padi. Badan Penelitian dan Pengembangan Pertanian.
- Aulakh, M.S., R. Wassmann, C. Bueno, J. Kreuwieser, and H. Runnenberg. 2001. Characterization of root exudates at different growth stages of ten rice (*Oryza sativa* L.) cultivars. *Plant Biology* 3:139-148.
- Azmi, K. 2017. Analisis sensitivitas emisi gas metana (CH₄) pada sawah dengan metode korelasi rank spearman. Skripsi. Institut Pertanian Bogor.
- Balai Penelitian Tanah. 2009. Petunjuk Teknis Analisis Kimia Tanah, Tanaman, Air dan Pupuk. Balai Penelitian Tanah, Badan Penelitian dan Pengembangan Pertanian. Departemen Pertanian, Bogor.
- Balai Penelitian Tanah. 2009. Petunjuk Teknis Analisis Kimia Tanah, Tanaman, Air dan Pupuk. Balai Penelitian Tanah, Badan Penelitian dan Pengembangan Pertanian. Departemen Pertanian, Bogor.
- Dendooven, L. Patino-Zuniga, N. Verhulst, M. Luna-Guido, R. Marsch, and B. Govaerts. 2012. Global warming potential of a agricultural systems with contrasting tillage and residue management in the central high lands of Mexico. *Agriculture, Ecosystem, and Environment* 152: 50-58.
- Hanafiah, A. L. 2005. Dasar-Dasar Ilmu Tanah. PT. Raja Grafindo Persada. Jakarta.
- Hossain, T.S., S. Hideki., U. Hideto., dan M. R. Sheikh. 2007. Adoption of Organic Rice For Sustainable Development In Bangladesh. *Journal of Organic Systems* 2(2):1-11.
- IPCC. 2007. Climate change. IPCC Fourth Assessment. The Physical Science Basis.
- Irawan, A., dan T. June. 2011. Hubungan iklim mikro dan bahan organik tanah dengan emisi CO₂ dari permukaan tanah di hutan alam Babahaleka Taman Nasional Lore Lindu, Sulawesi Tengah. *Jurnal Agromet* 25 (1) : 1-8.
- Johnson, J.M.F., A.J. Franzluebbers, S.L. Weyers, and D.C. Reicosky. 2007. Agricultural opportunities to mitigate greenhouse gas emissions. *Environmental Pollution* 150: 107-124.
- Khalil. M. A. K., R. A. Rasmussen, M. X. Wang and L. Ren. 1991. Methane Emission from Rice Fields in China. *Environment Science Technology* 25: 979-981.
- Kotu, S., J. J. Rondonuwu., S. Pakasi., dan T. Titah. Status unsur hara dan pH tanah di Desa Sea, Kecamatan Pineleng Kabupaten Minahasa. Manajemen Sumber Daya Lahan, Fakultas Pertanian Universitas Samratulangi.

- Lessard R et al. 1994. Methane and carbon dioxide fluxes from poorly drained adjacent cultivated and forest sites. *Canadian Journal of Soil Science* 74 (II) :139-146.
- Lu, Y., J.R.M. Arah., R. Wassmann., dan H.U. Neue. 2000. Simulation of Methane production in Anaerobic Rice Soils by A Simple Two-Pool Model. *Nutrient Cycle Agroecosystem*. 58: 277-283.
- Mayumdar,D., S. Kumar., dan U. Kumar. 2000. Reducing nitrous oxide emission from an irrigated rice field of North India with nitrification inhibitors. *Agriculture, Ecosystems and Environment*. 81: 163-169.
- Minamikawa, K., Tokida, T., Sudo, S., Padre, A., Yagi, K.. 2015. Guidelines for measuring CH₄ and N₂O emissions from rice paddies by a manually operated closed chamber method. National Institute for Agro-Environmental Sciences. Tsukuba.
- Mitra, S., D. Mayumdar., dan R. Wassmann. 2013. Methane Production and Emission in Surface and Subsurface Rice Soils and Their Blends. *Agriculture, Ecosystem and Environment journal*. 158: 94-102.
- Neue, H.U. and R.L. Sass. 1994. Trace gas emissions from rice fields. *Environment Science Research* 48: 119–147.
- Neue, H.U., and P.A. Roger. 1994. Potential of methane emission in major rice ecologies. *climate biosphere interaction : Biogenic emissions and environmental effects of climate change*. John Wiley and Sons. New York.
- Noor, M. 2004. Lahan Rawa.; Sifat dan pengelolaan tanah bermasalah sulfat masam. PT. Raja Grafindo Persada. Jakarta.
- Nursyamsi, D., M. Noor., dan Haryono. 2014. Sistem Surjan : Model Pertanian Lahan Rawa Adaptif Perubahan Iklim. IAARD Press. Jakarta.
- Rastogi, M., S. Singh, and H. Pathak. 2002. Emission of carbon dioxide from soil. *Current Science* 82 (V) : 510-517.
- Reddy, K.R., dan R.D. Delaune. 2008. *The Biogeochemistry of Wetlands ; Science and applications*. CRC Press. New York, USA.
- Schutz, H., W. Seiler, and W. Rennenberg. 1990. Soil and land use related sources and sinks of methane (CH₄) in the context of the global methane budget. *Soils and the Grenhouse Effect*. John Wiley and Sons, Chichester, NewYork, Brisbane, Toronto, Singapore : 269-285.
- Setyanto, Prihasto, dan R. Kartikawati. 2008. Sistem pengelolaan tanaman padi rendah emisi gas metan. *Penelitian Pertanian Tanaman Pangan* 27 (III).



- Sianturi, M., Wawan., dan Wardati. 2014. Efek tinggi muka air tanah dan pemupukan terhadap emisi CO₂ pada tanah gambut dengan sseresah daun akasia (*Acacia crassicaarpa*). Fakultas Pertanian, Universitas Riau.
- Suprihati, 2007. Populasi mikroba dan fluks metana (CH₄) serta Nitrous Oksida (N₂O) pada tanah sawah :pengaruh pengelolaan air, bahan organik dan pupuk nitrogen. Disertasi. Sekolah Pasca Sarjana.Institut Petanian Bogor.
- Wassmann, R., R.S. Lantin, H.U. Neue, L.V. Buendia, T.M. Corton, and Y. Lu. 2000. Characterization of methane emissions from rice fields in Asia. III. Mitigation option and future research needs. *Nutrient Cycle Agroecosystem* 58: 23-36.
- Weiwei C,B., Y Wanga., Z. Zhaoa., F. C. J. Gub., dan X. Zhengba. 2013. The effect of planting density on carbon dioxide, methane and nitrousoxide emissions from a cold paddy field in the Sanjiang Plain,northeast Northeast Institute of Geography and Agroecology, Chinese Academy of Sciences, Changchun 100029, ChinabState Key Laboratory of Atmospheric Boundary Layer Physics and Atmospheric Chemistry (LAPC), Institute of Atmospheric Physics, Chinese Academy ofSciences, Beijing 100029, China.
- Widowati, L. R., dan Sukristiyononubowo. 2009. Dinamika pH, Fe dan Mn serta P tanah sawah bukaan baru berkadar bahan organik tinggi terhadap pertumbuhan tanaman padi. *Prosiing Balittanah* : 329-341.
- Wihardjaka A., dan A. Setyanto. 2007. Dampak pemupukan jangka panjang padi sawah tadah hujan terhadap emisi gas metana. Pusat Penelitian dan Pengembangan Tanaman Pangan.
- Wihardjaka, A. 2015. Mitigasi emisi gas metana melalui pengelolaan lahan sawah. *Jurnal Litbang Pertanian* 34 (III) : 95-104.
- Wihardjaka, A., dan Indratin. 2002. Hasil padi gogorancan pada tanah bertekstur lempung dengan perlakuan olah tanah dan kotoran sapi. *Prosiding Seminar Nasional Sistem Produksi Pertanian Ramah Lingkungan*. Pusat Penelitian dan Pengembangan Tanaman Pangan. 185-191.
- Wihardjaka, A., dan Indratin. 2002. Hasil padi gogorancan pada tanah bertekstur lempung dengan perlakuan olah tanah dan kotoran sapi. *Prosiding Seminar Nasional Sistem Produksi Pertanian Ramah Lingkungan*. Pusat Penelitian dan Pengembangan Tanaman Pangan.
- Wihardjaka, A., K. Idris, A. Rachim, dan S. Partohardjono. 2002. Pengelolaan jerami dan pupuk kalium pada tanaman padi di lahan sawah tadah hujan kahat K. *Penelitian Pertanian Tanaman Pangan* 21(1): 26-32.