

## DAFTAR PUSTAKA

- Adhami, E., H.R. Owliaie, R. Molavi, M.R. Rashti, and M. Esfandbod. 2013. Effects of soil properties on phosphorus fractions in subtropical soils of Iran. *Journal Of Soil Science And Plant Nutrition* 13(1): 11-21.
- Ann, Y., K.R. Reddy, and J.J. Delfino. 2000. Influence of redox potential on phosphorus solubility in chemically amended wetland organic soils. *Ecological Engineering Elsevier Journal* 14 : 169 – 180.
- Arikunto, S. 2006. *Prosedur Penelitian Suatu Pendekatan Praktek*. PT. Rineka Cipta. Jakarta.
- Ba, L.T., K.L. Van, S. V. Elsacker, and W. M. Cornelis. 2016. Effect of Cropping System on Physical Properties of Clay Soil Under Intensive Rice Cultivation. *Land Degradation & Development* 27: 973 – 982.
- Badan Pusat Statistika. 2019. *Kabupaten Bantul Dalam Angka 2019*. BPS Kabupaten Bantul. CV Grape Java. Bantul.
- Balittan. 2009. *Petunjuk Teknis Edisi 2 : Analisis Kimia Tanah, Tanaman, Air dan Pupuk*. Balai Penelitian Tanah. Bogor.
- Barrow N.J. 1972. Influence of Solution Concentration of Calcium on the Adsorption of Phosphate, Sulphate and Molybdate by Soils. *Soil Science Society of America Journal* 113 : 175 – 180.
- BBPadi. 2015. *Pemupukan pada Tanaman Padi*. <http://bbpadi.litbang.pertanian.go.id/>. Diakses 14 Januari 2020
- Black, C.A. 1968. *Soil and plant Relationship*. Willey Eastern Private Limited. New Delhi.
- Brady, N.C., and R.R. Weil. 2008. *The Nature and Properties of Soils* (14th Edition). Pearson. London.
- Chang, S.C., and M.L. Jackson. 1957. Fractionation of Soil Phosphorus. *Soil Science* 84(2) : 133-144.
- Chen, C.R., E.Q. Hou, L.M. Condrón, G. Bacon, M. Esfandbod, J. Olley, and B.L. Turner. 2015. Soil phosphorus fractionation and nutrient dynamics along the Cooloola coastal dune chronosequence, southern Queensland, Australia. *Elsevier Journal* 257–258 : 4-13.
- Cheng, Y.S. 1981. *Drainage of Paddy Soils in Taihu Lake Region*. Proceeding of Symposium on Paddy Soil. Soil Science Academia Sinica. Nanjing. China.
- Chowdhury, P., S. Hoque, A. Parvin and M. Moniruzzaman. 2018. Speciation of inorganic phosphorus in some bench-merk soils of Bangladesh. *Bangladesh Journal Scientific Industrial Research* 53(1) : 7-12.



- Damanik, M.M.B., E.H. Bachtiar, Fauzi, Sarifuddin dan H. Hamidah. 2011. Kesuburan Tanah dan Pemupukan. USU Press. Medan.
- Das, P., S Majumder, and D. Saha. 2017. Influence of Wetting and Drying Cycles on Inorganic P-Fractions in an Acid Soil Amended With or Without Rock Phosphate. *Environment & Ecology* 35(1A) : 389 – 393.
- Dhage, J. Shubhagi, V.D. Patil, and A.L. Dhamak. 2014. Influence of Phosphorus and Sulphur Levels on Nodulation, Growth Parameters and Yield of Soybean (*Glycine max* L.) Grown on Vertisol. *Asian Journal of Soil Science* 9(2) : 244 – 249.
- Dipertan. 2015. Pemupukan Jagung. <https://dinpertan.purbalinggakab.go.id/pemupukan-jagung>. Diakses 14 Januari 2021.
- Erisa, D., Munawar, dan Zuraida. 2018. Kajian Fraksionasi Fosfor (P) pada Beberapa Pola Penggunaan Lahan Kering Ultisol di Desa Jalin Jantho Aceh Besar. *Jurnal Ilmiah Mahasiswa Pertanian* 3(2): 620-628.
- Ethan, S. 2015. Effect of flooding on chemistry of paddy soils. *International Journal of Innovative Science, Engineering & Technology* 2(4): 413-420.
- Fageria, N. K., A. B. D. Santos, and M. F. Moraes. 2010. Influence of Urea and Ammonium Sulfate on Soil Acidity Indices in Lowland Rice Production. *Communications in Soil Science and Plant Analysis* 41(13) : 1565–1575.
- FAO. 2014. World reference base for soil resources 2014. International soil classification system for naming soils and creating legends for soil maps. Rome. Italy.
- Federer, W. 1963. *Experimental Design Theory and Application*. Oxford and Lbh Publish Hinc. New York.
- Foss, J.E., F.R Moormann, and S. Rieger. 1983. Chapter 10: Inceptisols. In: Wilding LP, Smeck NE, Hall GF, editors. *Pedogenesis and Soil Taxonomy. II. The soil orders*. Amsterdam: Elsevier. p 410.
- Gaol L., M. Damayanti, Supriadi. dan M. Sembiring. 2013. Survei dan Pemetaan Status Fosfat Lahan Sawah pada Daerah Irigasi Bahal Gajah / tiga Bolon Kecamatan Sidamanik Kabupaten Simalungun. *Jurnal Agroteknologi Universitas Sumatera Utara* 1(4) : 1226 – 1234.
- Gikonyo, E.W., A.R. Zaharah, M.M Hanafi, and A.R. Anuar. 2008. Evaluation of phosphorus pools and fractions in an acid tropical soil recapitalized with different phosphorus sources. *Communications in Soil Science and Plant Analysis* 39(9) :1385-1405.
- Gunawan, N. Wijayanto, dan S.W. Budi. 2019. Karakteristik Sifat Kimia Tanah Dan Status Kesuburan Tanah Pada Agroforestri Tanaman Sayuran Berbasis *Eucalyptus Sp.* *Jurnal Silvikultur Tropika* 10(2) : 63-69.



- Habi, M. L., 2012. Ketersediaan Fosfat, Serapan Fosfat dan Hasil Tanaman Jagung Akibat Pemberian Bokashi Ela Sagu dengan Pupuk Fosfat pada Inceptisols. *Buana Sains* 12(1): 63-70.
- Habi, M. L., J. I. Nendissa, D. Marasabessy, dan A. M. Kalay. 2018. Ketersediaan Fosfat, Serapan fosfat, dan Hasil Tnaman Jagung (*Zea mays* L.) Akibat pemberian Kompos Granul Ela Sagu Dengan Pupuk Fosfat Pada Inceptisols. *Jurnal Agrologia* 7(1) : 42-52.
- Hardjowigeno, S., H. Subagyo, dan M.L. Rayes. 2004. Morfologi dan Klasifikasi Tanah Sawah. Pusat Penelitian dan Pengembangan Tanah dan Agroklimat. Badan Penelitaian dan Pengembangan Pertanian. Departemen Pertanian. Bogor.
- Hardjowigeno, S. dan L. Rayes. 2005. Tanah Sawah, Karakteristik, Kondisi dan Permasalahan Tanah Sawah di Indonesia. Bayumedia. Malang.
- Hartono, A, S. Funakawa, and T. Kosaki. 2006. Transformation of added phosphorus to acid upland soil with different soil properties in Indonesia. *Soil Science and Plant Nutrition Journal*. 51(6):734- 744.
- Hakim, N., N.Y. Nyakpa, S. Lubis, G. Nugroho, R. Saul, M.H. Diha, G. B. Hong dan H.H. Baley. 1986. *Dasar-Dasar Ilmu Tanah*. Lampung University Press. Lampung.
- Hanafiah, K.A. 2005. *Dasar-Dasar Ilmu Tanah*. PT. Raja Grafindo Persada, Jakarta.
- Hartatik, W., K. Idris, S. Sabiham, S. Djuniwati, dan J.S. Adiningsih. 2003. Komposisi Fraksi-Fraksi P pada Tanah Gambut yang Diberi Bahan Amelioran Tanah Mineral dan Pemupukan P. *Jurnal Tanah Dan Iklim* 21 : 15-30.
- Hartatik, W., Sulaeman dan A. Kasno. 2007. Perubahan Sifat Kimia dan Ameliorasi Sawah Bukaas Baru, Lahan Sawah Bukaas Baru. Balai Besar Penelitian dan Pengembangan Sumberdaya Lahan Pertanian, Bogor.
- Havlin, J.L, J.D. Beaton, S.L. Nelson, and W.L. Nelson. 2005. *Soil Fertility and Fertilizers. An Introduction to Nutrient Management*. Pearson Prentice Hall. New Jersey.
- Haynes, R.J., and M.S. Mokolobate. 2001. Amelioration of Al toxicity and P Deficiency in Acid Soils by Additions of Organic Residues: A Critical Review of The Phenomenon and The Mechanisms Involved. *Journal of Nutrient Cycling in Agroecosystems* 59(1) : 47-63.
- Hillel D. 1998. *Environmental Soil Physics 1<sup>st</sup> Edition : Fundamental, Application, and Environmental Consideration*. Academic Press. San Diego.
- Jan, J., J. Barovee, J. Kopacek, and J. Hejzlar. 2015. Assessment of phosphorus associated with Fe and Al (hydr)oxides in sediments and soils. *Soils Sediments Journal* 15(7): 1-10.



- Jokubauskaite, I., D. Karcauskiene, S. Antanaitis, J. Mazvilla, A. Slepetiene, D. Koncius, and L. Piaulokaite-Motuzienei. 2015. The distribution of phosphorus forms and fractions in Retisol under different soil liming management. *Zemdirbyste-Agriculture* 102(3) : 251— 256.
- Jumini, Nuerhayati, dan Murzani. 2011. Efek Kombinasi Pupuk NPK dan Cara Pemupukan Terhadap Pertumbuhan dan Hail Jagung Manis. *Jurnal Floratek* 6 :165 -170.
- Juo, A.R.S. and R.L. Fox 1977. Phosphate sorption characteristics of some bench-mark soils of West Africa. *Soil Science* 124: 370-376.
- Jusman, D. Widjajanto, dan U. Hasanah. 2017. Beberapa Sifat Fisika Inceptisol Watutela Dalam Kaitannya Dengan Pemberian Bahan Organik dan Suhu Pemanasan. *Jurnal Agrotekbis* 5 (2) : 144 – 151.
- Kaiserli, A., D. Voutsas, and C. Samara. 2002. Phosphorus fractionation in lake sediments – Lakes Volvi and Koronia, N. Greece. *Chemosphere Elsevier Journal* 46:1147 – 1155.
- Kasno, A., S. Rochayati, dan B.H. Prasetyo. 2009. Deposit, Penyebaran dan Karakteristik Fosfat Alam. *Fosfat Alam : Pemanfaatan Pupuk Fosfat Alam Sebagai Sumber Pupuk P*. Balai Penelitian Tanah. Bogor.
- Keizer, K., and W. Zech. 1996. Defect in estimation of alumunium in humus complexes of podzolic soil by phyrophosphate extraction. *Soil Science of America Journal* 161 : 452 – 457.
- Ketaren, S.E., P. Marbun, dan P. Marpaung. 2014. Klasifikasi Inceptisol Pada Ketinggian Tempat yang Berbeda di Kecamatan Lintong Nihuta Kabupaten Hasundutan. *Jurnal Online Agroekoteknologi* 2(4) : 1451 – 1458.
- Khresat, S.A., 2005. Formation and Properties of Inceptisols (Cambisols) of major agricultural rainfed areas in Jordan. *Archives of Agronomy and Soil Science* 51(1): 15 – 23.
- Kimura, M., J. Murasea, and Y. Lu. 2004. Carbon cycling in rice field ecosystems in the context of input, decomposition and translocation of organic materials and the fates of their end products (CO<sub>2</sub> and CH<sub>4</sub>). *Soil Biology & Biochemistry Elsevier Journal* 36 : 1399–1416.
- Kusriningrum R.S. 2008. *Dasar Rancangan Percobaan dan Rancangan Acak Lengkap*. Airlangga University Press. Surabaya.
- Kyuma, K. 2004. *Paddy Soil Science*. Kyoto University Press and Trans Pacific Press. Kyoto.
- Lopez-Pinero, A., Navarro, and A. Garcia. 1997. Phosphate Sorption in Vertisol of Southwestern Spain. *Soil Science* 162(1) : 69 -77.



- Marion, G.M., W.H. Schlesinger, and P.J. Fonteyn. 1990. Spatial Variability of  $\text{CaCO}_3$  Solubility in Chihuahuan Desert Soil. *Arid Soil Research and Rehabilitation* 4 : 181-191.
- Mello, J.W.V.de., M. Gasparon, and J. Silva. 2018. Effectiveness of Arsenic Co-Precipitation with Fe-Al Hydroxides for Treatment of Contaminated Water. *Revista Brasileira de Ciência Do Solo*, 42(0) : 1 – 15.
- Mengel, K., and E.A. Kirkby. 1982. Principles of Plant Nutrition 3rd edition. International Potash Institute Bern. Switzerland.
- Mengel, K., E.A. Kirkby, H. Kosegarten, and T. Appel. 2001. Phosphorus : Principle of Plant Nutrition. Springer, Dordrecht.
- Mimmo, T., M. Sciortino, M. Ghizzi, G. Gianquinto, and E. Gessa. 2009. The influence of aluminium availability on phosphate uptake in *Phaseolus vulgaris* L. and *Phaseolus lunatus* L. *Plant Physiology and Biochemistry* 47 : 68-72.
- Mitrana, T., P. K. Mani, N. Basak, D. Mazumder, and M. Roy. 2015. Long-term manuring and fertilization influence soil inorganic phosphorus transformation vis-a-vis rice yield in a rice-wheat cropping system. *Archives of Agronomy and Soil Science*, 62(1) : 1-18.
- Mokwunye, U. 1975. The influence of pH on the adsorption of phosphate by soils from the Guinea and Sudan Savannah Zones of Nigeria. *Soil Science Society of America Journal* 39(6) : 1100-1102.
- Moormann F.R., and N.V. Breemen. 1978. Rice: Soil, Water, Land. International Rice Research Institute, Los Banos. Philippines.
- Nomosatryo, S., C. Henny, E. Rohaeti, dan I. Batubara. 2012. Fraksinasi Fosforus Pada Sedimen di Bagian Litoral Danau Matano, Sulawesi Selatan. *Prosiding Seminar Nasional Limnologi VI* : 493-508.
- Nurjaya. 2017. Problem Fiksasi Fosfor pada Tanah Berkembang Lanjut (Ultisol dan Oxisols) dan Alternatif Mengatasinya. *Prosiding Seminar Nasional Agroinovasi Spesifik Lokasi Untuk Ketahanan Pangan Pada Era Masyarakat Ekonomi ASEAN*. Balai Penelitian Tanah, Badan Penelitian dan Pengembangan Pertanian : 109 – 117.
- Nursyamsi, D., dan Suprihati. 2005. Sifat-sifat Kimia dan Mineralogi Tanah serta Kaitannya dengan Kebutuhan Pupuk untuk Padi (*Oryza sativa*), Jagung (*Zea mays*), dan Kedelai (*Glycine max*). *Buletin Agronomi* 33(3) : 40 – 47.
- Nursyamsi, D. dan D. Setyorini. 2009. Ketersediaan P Tanah-Tanah Netral dan Alkalin. *Jurnal Tanah Dan Iklim* (30) : 25 -36.



- Nursyamsi, D., A. Budiarto, dan L. Anggria. 2012. Pengelolaan Kahat Hara pada Inceptisol untuk Meningkatkan Pertumbuhan Tanaman Jagung. *Jurnal Tanah dan Iklim* (20) : 56-68.
- Oberson, A., D.K. Friesen, I.M. Rao, S. Buhler, and E. Forssard. 2001. Phosphorus transformation in an Oxisol under contrasting land use system: the role of soil microbial biomass. *Plant Soil Journal*. 237: 197-210.
- Palembang, J. N., Jamilah, dan Sarifuddin. 2013. Kajian Sifat Kimia Tanah Sawah Dengan Pola Pertanaman Padi Semangka di Desa Air Hitam Kecamatan Lima Puluh Kabupaten Batubara. *Jurnal Agroekoteknologi Universitas Sumatera Utara* 1(4): 1 - 9.
- Parfitt, R.L., Roger J. Atkinson, and Roger S.T.C. 1975. The mechanism of fosfat fixation by iron oxides. *Soil Science Society America Journal* 39(5) : 837-841 .
- Pemkab Bantul, 2020. Kondisi Klimatologi Kabupaten Bantul. [https://bantulkab.go.id/data\\_pokok/index/0000000021.html](https://bantulkab.go.id/data_pokok/index/0000000021.html). Diakses 8 Januari 2021.
- Petersen, G.W. and R.B. Corey. 1966. A modification of the Chang and Jackson procedure for routine fractionation of inorganic soil Phosphate. *Soil Science Society of America Journal* 30: 563-565.
- Pierzynski, G.M. 1991. The chemistry and mineralogy of phosphorus in excessively fertilized soils. *Critical Reviews in Environmental Control* 21(3-4), 265-295.
- Ponnamperuma, F.N. 1972. The chemistry of submerged soils. In *Soils and Rice*. International Rice Research Institute. Los Baños, Philippines.
- Prakash, D., D.K. Benbi, and G.S. Saroa. 2017. Land-use effects on phosphorus fractions in Indo-Gangetic alluvial soils. *Agroforest Syst*. Springer Science+Business Media Dordrecht.
- Prasetyo, B.H., J.S Adiningsih, K. Subagyo, dan R.D.M. Simanungkalit. 2004. Mineralogi, Kimia, Fisika, Biologi Tanah Sawah. *Tanah Sawah dan Teknologi Pengelolanya*. Bogor: Pusat Penelitian dan Pengembangan Tanah dan Agroklimat, Badan Penelitian dan Pengembangan Pertanian.
- Pratono, S.A.C., Supriyadi, dan Purwanto. 2011. Zonasi Kualitas Tanah Sawah di Kawasan Industri DAS Bengawan Solo Daerah Kabupaten Karanganyar. *Jurnal Ilmu Tanah dan Agroklimatologi* 8(1) : 1-12.
- Priyadarshi, R., S. Kumar, and C.D. Choudhary. 2018. Phosphorus fraction dynamics in soil as affected by tillage and cropping system under irrigated agro-ecosystem. *Journal of Pharmacognosy and Phytochemistry* 7(2) : 392-396.



- Rachim, A. 1995. Penggunaan kation-kation polivalen dalam kaitannya dengan ketersediaan fosfat untuk meningkatkan produksi jagung pada tanah gambut. PPS. IPB. Bogor. Disertasi.
- Raheb, A. and A. Heidari. 2012. Effects of clay mineralogy and physico-chemical properties on potassium availability under soil aquic conditions. *Journal of Soil Science and Plant Nutrition* 12(4) : 747- 761.
- Radjagukguk, B. 1983. Masalah Pengapuran Tanah Mineral Masam di Indonesia. Prosiding Seminar Alternatif-Alternatif Pelaksanaan Program Pengapuran Tanah-Tanah Mineral Masam di Indonesia. Fakultas Pertanian UGM. Yogyakarta. Bull 18 :15 – 43.
- Resman, A.S. Syamsul, dan H.S. Bambang. 2006. Kajian beberapa sifat kimia dan fisika inceptisol pada toposekuen lereng selatan gunung merapi kabupaten sleman. *Jurnal Ilmu Tanah dan Lingkungan* 6(2): 101-108.
- Ringgih, D., M. L. Rayes, dan S. R. Utami. 2018. Kajian Perubahan Sifat Fisik dan Kimia Akibat Penyawahan pada Andisol Sukabumi, Jawa Barat. *Jurnal Agrovigor* 11 (1): 21 – 27.
- Sanchez, P.A., and T.J. Logan. 1992. Myths and science about the chemistry and fertility of soils in the tropics. *Soil Science Society of America* 29 : 35 – 46.
- Savant, N. K., and Ellish R. J. 1964. Changes In Redox Potential And Phosphorus Availability In Submerged Soils. *Soil Science* 98(6) : 388-394.
- Schmidt, J.P., S.W. Buwol, and E.J. Kamprath. 1996. Soil phosphorus dynamics during seventeen years of continuous cultivations: fraction analyses. *Soil Science Society of America Journal* 60: 1168-1172.
- Sakti, P., Purwanto, S. Minardi, dan Sutopo. 2011. Status ketersediaan makronutrisi (N, P, dan K) tanah sawah dengan teknik dan irigasi tadah hujan di kawasan industri Karanganyar, Jawa Tengah. *Jurnal Bonorowo Wetlands* 1(1): 8-19.
- Sanders, W.M.H., and E.G. Williams. 1955. Observation on determination of total organic phosphorus from soil. *Journal of Soil Science* 24: 173-180.
- Saridewi, M.N., M. Bahar, dan Anisah. 2017. Uji Efektivitas Antibakteri .
- Setyorini, D. dan S. Abdulrachman. 2009. Hara Mineral Tanaman Padi. Balai Besar Padi. Badan Penelitian dan Pengembangan Pertanian. IPB Press. Bogor.
- Shoji, S., M. Nanzyo, Y. Shirato, and T. Ito. 1993. Chemical kinetic of weathering in young Andisols from Northeastern Japan using soil age normalized to 10 °C. *Soil Science Journal* 155 : 53 – 60.





- Silva, J., J. W. V. de Mello, M. Gasparon, W. A. P. Abrahão, V. S. T. Ciminelli, and T. Jong. 2010. The role of Al-Goethites on arsenate mobility. Elsevier Journal 44(19) : 5684-5692.
- Simanungkalit, R.D.M., D.A. Suriadikarta, R. Saraswati, D. Setyorini, dan W. Hartatik. 2006. Pupuk Organik dan Pupuk Hayati. Selected reading: 141-158. Balai Besar Litbang Sumber daya Lahan Pertanian. Bogor.
- Soewandita, H. 2008. Studi Kesuburan Tanah dan Analisis Kesesuaian Lahan Untuk Komoditas Tanaman Perkebunan di Kabupaten Bengkalis. Jurnal Sains dan Teknologi Indonesia 10 (2): 128-133.
- Soil Survey Staff. 2014. Key to Soil taxonomy Twelfth Edition. United States Department of Agriculture, Natural Resources Conservation Service.
- Sposito, G. 1989. The Chemistry of Soils. Oxford University Press. New York.
- Suprihatin, A. dan J. Amirrullah. 2018. Pengaruh Pola Rotasi Tanaman terhadap Perbaikan Sifat Tanah Sawah Irigasi. Jurnal Sumberdaya Lahan 12(1): 49 -57.
- Susanto, A.N. 2005. Pemetaan Dan Pengelolaan Status Kesuburan Tanah Di Dataran Wai Apu, Pulau Buru. Jurnal Pengkajian dan Pengembangan Teknologi Pertanian 8(3) : 315-332.
- Susanto, B., A. Hartono, S. Anwar, A. Sutandi, dan S. Sabiham. 2018. Model Hubungan Fraksi P dengan Sifat Kimia Tanah Sawah pada Tiga Kelompok Bahan Induk Berbeda di Jawa Barat. Jurnal Tanah dan Iklim 42(2): 135-151.
- Tan, K.H. 1998. Principles of Soil Chemistry. 3rd Ed. Marcel Decker, Inc. New York, Basel, Hongkong.
- Taylor, H.M. 1972. Effect of drying on water retention of a puddled soil. Soil Science Society Of America Journal 36 : 972 – 973.
- Tiessen, H, and J.O. Moir. 2007. Characterization of available P by sequential extraction, in Soil Sampling and Methods of Analysis, Second Edition, edited by Carter MR, Gregorich EG, CRC Press, Boca Raton. Florida.
- Tisdale, S. L., W. L. Nelson, J. D. Beaton, and J. L. Hvin. 1985. Soil Fertility and Fertilizers. Macmillan Publisher Co. New York.
- Umaternate G.R., J. Abidjulu, dan A. D. Wuntu. 2014. Uji Metode Olsen dan Bray dalam Menganalisis Kandungan Fosfat Tersedia pada Tanah Sawah di Desa Konarom Barat Kecamatan Dumoga Utara. Jurnal MIPA UNSRAT 3(1) : 6 – 10.
- Verma, S, S.K. Subehia, and S.P. Sharma. 2005. Phosphorus fractions in an acid soil continuously fertilized with mineral an organic fertilizers. Biology and Fertility of Soils. 41: 295-300.





- Walker, T. W., and J. K. Syers. 1976. The fate of phosphorus during pedogenesis. *Geoderma* 15:1–19.
- Wang, J.K., and R.E. Hagan. 1981. *Irrigated Rice Production System. Design Procedures.* Westview Press. Colorado.
- Willet, I. R. 1989. Causes and prediction of changes in extractable phosphorus during flooding. *Australia Journal of Soil Research* 27(1) : 45-54.
- Wood, S. A., C. Depree, L. Brown, T. Mc Allister, and I. Hawes. 2015. Entrapped Sediments as a Source of Phosphorus in Epilithic Cyanobacterial Proliferations in Low Nutrient Rivers. *Plos One Journal* 10(10) : 1-17.
- Yamani, A. 2010. Analisis Kadar Hara Makro Dalam Tanah pada Tanaman Agroforestri di Desa Tambun Raya Kalimantan Tengah. *Jurnal Hutan Tropis* Volume 11(30): 37-46.
- Yuan, L.Y, Y. Rui, G. Ru, W.H. An, C.A. Lei, and L. Yong. 2015. Effects of long-term phosphorus fertilization and straw incorporation on phosphorus fractions in subtropical paddy soil. *Journal of Integrative Agriculture* 14(2) :365–373.
- Zhang, H., L. Shi, D. Wen, and K. Yu. 2016. Soil potential labile but not occluded phosphorus forms increase with forest succession. *Springer Journal Biol Fertil Soils* 52:41–51.
- Zheng, Z., R.R. Simard, J. Lafond, and L.E. Parent. 2002. Pathways of soil phosphorus transformation after 8 years of cultivation under contrasting cropping practices. *Soil Science Society of America Journal*. 66: 999-1007.
- Zhou, Y., C. Song, X. Cao, J. Li, G. Chen, Z. Xia, and P. Jiang . 2007. Phosphorus fractions and alkaline phosphatase activity in sediments of a large eutrophic Chinese lake (Lake Taihu). *Hidrobiologia Journal* 599:119-125.