

Daftar Pustaka

- Alcántara, L.P., García, B.A, Requejo,A., and Zornoza ,R., 2017. *Effects of land use change and management on SOC and soil quality in Mediterranean rangelands areas*. Agricultural Chemistry and Soil Science journal . Vol. 19. Spanyol.
- Anderson, C., Peterson, M., & Curtin, D. 2017. *Base cations, K + and Ca 2+ , have contrasting effects on soil carbon, nitrogen and denitrification dynamics as pH rises*. Soil Biology and Biochemistry, 113, 99–107.
- Andrews, S.S., J.P. Mitchell, R. Mancinelli, D.L. Karlen, T.K. Hartz, W.R. Horwath, G.S. Ptttygrove, K.M. Scow, dan D.S. Munk. 2002. On-farm assessment of soil quality in California's Central Valley. Agron. J. 94:112-23.
- Angelova V. R., Akova V. I., Artinova N. S., Ivanov K. I. (2013) *The effect of organic amendments on soil chemical characteristics*. Bulgarian Journal of Agricultural Science, 19(5), 958-971.
- Arifin., S, H. Widiyanto,A G. Wattimena, T. Djogo dan L. Sundawati. 2003. *Agroforestri di Indonesia*. World Agroforestry Centre, Bogor.
- Balai Penelitian Tanah. 2005. Analisis Kimia Tanah, Tanaman, Air dan Pupuk. Departemen Pertanian. Bogor.
- Balai Penelitian Tanah. 2009. Analisis Kimia Tanah, Tanaman, Air dan Pupuk. Departemen Pertanian. Bogor.
- Bangun, I. 2002. *Pengembangan Metode Penetapan Biomassa Karbon Mikroorganisme Tanah (C-mik) dengan Menggunakan Ultrasonik Processor*. Skripsi. Institut Pertanian Bogor.
- Bermanakusumah, Ramdhon. 1978. *Erosi, Penyebab dan Pengendaliannya*. Fakultas Pertanian Universitas Padjadjaran, Bandung.
- Cantu M.P, Becker J.C.B, Schiavo H.F. 2007. *evaluation of soil quality by using indicators and indices*. ci. suelo. 25 (2) : 173-178
- Chandel, S., Hadda, M. S. and Mahal, A. K. 2018. *Soil quality assessment through minimum data set under different land uses of submontane punjab*. *Communications in Soil Science and Plant Analysis*. Taylor & Francis, 49(6).
- Cozzolino V., Di Meo V., Piccolo A. (2013), *Impact of arbuscular mycorrhizal fungi applications on maize production and soil phosphorus availability*. Journal of Geochemical Exploration, 129, 40-44.
- Departemen Kehutanan. 2006. *Seleksi Pohon Plus. Booklet*. Balai Perbenihan Tanaman Hutan Jawa dan Madura. Sumedang. 28 p.
- Data Kecamatan Giritontro
- Desavathu, R.N., Nadipena, A. R., & Peddada, J.R. 2018. *Assesment of Soil Fertility Status in Paderu Mandal, Visakhapatnam district of Andhra Pradesh through Geospatial Techniques*. The Egyptian Journal of remote Sensing and Space Science, 21(1), 73-81.
- Dinas Perkebunan dan Kehutanan Kabupaten Wonogiri. 2015
- Dinas Pertanian Wonogiri. 2012.
- Djaenuddin. 2003. *Petunjuk Teknis Evaluasi Lahan untuk Komoditas Pertanian*. Bogor. Balai Penelitian Tanah, Puslitbang Tanah dan Agroklimat.

- Doran, J.W., M. Sarrantonio, dan M.A Leibig. 1996. Soil health and sustainability. Pp. 1-54. In D.L. Sparks (ed.) *Advances in agronomy*. Vol. 56. Academic Press, New York.
- Doran, J.W. dan T.B. Parkin. 1994. Defining and assessing soil quality. P. 3-21 In J.W. Doran et al. (ed). *Defining soil quality for sustainable environment*. SSSA Spec. Publ. 35. SSSA, Madison, WI
- Dwi Putri Marissa, Dwi Putro Tejo Baskoro, Suria Darma Tarigan, Ennie Dwi Wahjunie. 2017. *Karakteristik Beberapa sifat tanah pada Berbagai Posisi Lereng dan Penggunaan Lahan di DAS Ciliwung Hulu*. Jurnal. Il. Tan. Lingkungan, 19 (2) Oktober @2017 : 81-85
- E. Hartemink Alfred. James G Bockheim. 2017. *The Soils of Wisconsin*. New York: Springer
- Feddermann, N., R. Finlay, T. Boller, and M. Elfstrand, 2010. *Functional diversity in arbuscular mycorrhiza – the role of gene expression, phosphorous nutrition and symbiotic efficiency*. Fungal Ecol. 3: 1-8
- Gonggo, B.M., Hermawan, B., Anggraeni, D. 2005. Pengaruh Janis Tanaman Penutup dan Penggunaan lahan terhadap Sifat Fisika Tanah pada Lahan Alang-alang. *Jurnal Ilmu-ilmu Pertanian Indonesia* : Vol. 7 No. 1 : 44 – 50. Bengkulu
- Gupta, R.K., Hussain, A., Sooch, S. S., Kang, J. S., Sharma., & Dheri, G. S. 2019 *Rice straw biochar improves soil fertility, growth, and yield of rice-wheat system on a sandy loam soil*. *Experimental Agriculture*, 1-14.
- Hardjowigeno, Sarwono. M Luthfi Rayes. 2005. *Karakteristik kondisi dan Permasalahan Tanah Sawah di Indonesia*. Malang: Bayu Media Publishing
- Hardjowigeno S. 2007. *Ilmu Tanah*. Pressindo. Jakarta.
- John Madeley, 2002. *Food for all, The Need for A New Agriculture*. The University Press Ltd., Bangladesh.
- Julianto Eko Amiadji, Suntoro, Widyatmani Sih Dewi, Partoyo. 2019. *Mapping Indigenous Nutrient Status of Post-Eruption to Support the Fertilization of Rice (Oryza sativa) in Southern Area of Merapi Mountain, Indonesia*. *Journal of Settlements and Spatial Planning*, vol. 10, no 1 (2019) 29-38.
- Karlen, D. L., M. J. Mausbach, J. W. Doran, R. G. Cline, R. F. Harris, and G. E.Schuman. 1997. Soil Quality: a concept, definition, and framework forevaluation (A guest editorial). *Soil. Sci. Soc. Am. J.* 61: 4-10.
- Kecamatan dalam data-ppid Wonogiri. 2016.
- Khan, S., Mulvaney, R., & Ellsworth, T. (2014). *The potassium paradox: Implications for soil fertility, crop production and human health*. *Renewable Agriculture and Food Systems*, 29(1), 3-27.
- Kusumastuti, Any. 2014. "*Dinamika P Tersedia, PH, C-Organik Dan Serapan P Nilam (Pogostemon Cablin Benth.) Pada Berbagai Aras Bahan Organik Dan Fosfat Di Ultisols*." *Jurnal Penelitian Pertanian Terapan*, vol. 14, no. 3
- Lal, R. 1994. *Method And Guidelines for Assesing Susustainable Use of Soil and Water Resource in The Tropic*, Washington : Soil Managemen Support Service USDA Soil Coservation Sevice
- Larson, W. E. and F.J, Pierce. 1991. *Conservation and Enhancement of Soil Quality*. Jurnal. 2 (3):175-204.

- Larson, W.E., and F.J. Pierce. 2010. *Conservation and enhancement of soil quality. In Evaluation for Sustainable Land Management in the Developing World*. Pp 175-203. Int. Board for Soil Res. And Management. Bangkok, Thailand.
- Liu, Xiaobing, Lee burras, Y.s. Kravchencko, Xiaohui Yuan. 2011. *Overview of Mollisols in the world: Distribution, land use and management*. Canadian Journal of Soil Science 92(3):383-402
- MacCarthy, D.S., Agyare, W.A., Vlek, P.L.G., Adiku, S.G.K., 2013. *Spatial variability of some soil chemical and physical properties of an agricultural landscape*. West Afr. J. Appl. Ecol. 21 (2), 47–61.
- Machfiroh N, Supriyadi dan Hartati S. 2014. Determination of Soil Quality Index Based on Soil Chemical Properties in the Upstream of Bengawan Solo River Basin Wonogiri. *Journal of Soil Science and Agroclimatology*. 11(2) : 113-121
- Maranon, M., M. Soriano, G. Delgado and R. Delgado. 2002. *Soil Euquality in Mediteranian Mountain Environrnents: Effect of Land Use Change*. Soil Science Society American Jounal. 66:94t-958.
- Marlina A., Satriawaniqbal H. (2014), *Pengaruh olah tanah dan pemberian pupuk kandang terhadap sifat fisik tanah dan produksi tanaman jagung*. *Lentera: Jurnal Ilmiah Sains dan Teknologi*, 14(11).
- Maroeto, Suntoro W. A., Sutrisno D., Rosyda P. (2017), *Net farm income as refl ection of critical land evaluation in welang watershed, Indonesia*. *Bulgarian Journal of Agricultural Science*, 23(5), 826–833.
- Marzaioli R, R D'Ascoli, RA De Pascale, FA Rutigliano 2010. *Soil quality in a Mediterranean area of Southern Italy as related to different land use types*. *Applied Soil Ecology* 44.
- Mujiyo., Sunarmianto B.H., Hanudin E., Widada J., Syamsyiah J.. 2018. The effect of organic paddy field system to soil properties. *IOP Conference Series: Earth and Environmental Science*, 122(1). doi: 10.1088/1755-1315/122/1/012023
- Mujiyo M., Sumarno S., Sudadi S., Murti R. W. (2020), *Assessment of soil degradation in Pitu District, Ngawi Regency*. *Journal of Degraded and Mining Lands Management*, 7(2), 2049-2057
- Mukhopadhyay S, Maiti SK, dan Masto RE. 2014. *Development of Mine Soil Quality Index (MSQI) for Evaluation of Reclamation Success : A Chronosequence Study*. *Ecological Engineering*. 71 : 10-20.
- Nawale, Anil B., Saraswat, Rajeshwari, 2013. *Analysis of soil characteristics for crop development in Sangamner tahsil in Ahemadnagar district of Maharashtra*. *Appl. Res. Dev. Inst. J.* 9 (6), 29–41.
- Noor, A. 2003. *Pengaruh Fosfat Alam dan Kombinasi Bakteri Pelarut Fosfat dengan Pupuk Kandang terhadap P Tersedia dan Pertumbuhan Kedelai pada Ultisol*. *Jurnal Agronomi Indonesia (Indonesian Journal of Agronomy)*, 31(3).
- Nurrani, Lis. Halidah. Supratman Tabbu. Sumarno N Patandi. 2012. *Karakteristik Kualitatif Tipe Penggunaan Lahan di Zona penyangga Taman Nasional Aketajawe Lolobata*. *Jurnal Penelitian Kehutanan wallacea* vol. 1 No. 2, Desember 2012 : 117-133
- Nusantara, R. M. , A. Aspan , Alhaddad, A. M. , Suryadi, U. E., Makhrawie, Fitria,I., Fakhruddin,J. 2018. *Peat soil quality index and its determinants as influenced by*

- land use changes in Kubu Raya District, West Kalimantan, Indonesia*. Biodiversita journal. 19 (2): 585-590. Kalimantan Barat
- Padmawati, Ni Luh Ayu. I Dewa Made Arthagama. Ketut Dharma Susila. *Evaluasi Kualitas Tanah di Lahan Sawah Simantri dan Non Simantri di Subak Riang Desa Riang Gede, Kecamatan Penebel*. Skripsi
- Pamujiningtyas ,Dwi Christine.2009. *studi kualitas tanah pada berbagai sistem penggunaan lahan di wilayah desa ngadipiro kecamatan nguntoronadi, wonogiri*. Fakultas Pertanian, Ilmu Tanah, Universitas Sebelas Maret, Surakarta
- Panjaitan Noverly Erpan., 2000. Pengaruh Residu Kalium Terhadap Efisiensi Pemupukan Kalium Pada Tanaman Padi Sawah (*Oryza Sativa L.*). Skripsi Jurusan Ilmu Tanah, Fakultas Pertanian Universitas Sumatra Utara. Medan
- Partoyo. 2005. *Analisis Indeks Kualitas Tanah Pertanian Dilahan Pasir Pantai Samas Yogyakarta*. Jurnal. 12 (2): 140-151
- Porras-Soriano, A., M. L. Soriano-Martin, A. Porras-Piedra, and R. Azcon, 2009. *Arbuscular mycorrhizal fungi increased growth, nutrient uptake and tolerance to salinity in olive trees under nursery conditions*. J of Plant Physiol. 166(13): 1350-1359
- Prayitno, A., Sartohadi, J., and Nurudin, M. 2019. *Utilization of Soil Function Information for Assessing Soil Quality of Rice Field in the Quaternary-Tertiary Volcanic Transitional Zones in Central Java*. Sains Tanah Journal of Soil Science and Agroclimatology, 16(2): 169-180
- Priyono, Rahayu, Slamet Minardi and Suntoro. 2018. *Morphology of Landslide Prone of Agriculture Area in the Sub Watershed Samin Upstream Based on Landslide Type Used for Considerations of Early Mitigation Model*, International Journal of Mechanical Engineering and Technology 9(7), pp. 462–475
- Qiu S., Xie J., Zhao S., Xu X. Hou Y., Wang X., Zhou W., He P., Johnston A. M., Christie P., and Jin, J. (2014), *Long-term effects of potassium fertilization on yield, efficiency, and soil fertility status in a rain-fed maize systems in the northeast of China*. Field crops research, 163, 1-9.
- Rasyid, B. 2004. *Kualitas Tanah (Soil Quality)*. Lembaga penerbitan Universitas Hasanuddin Makassar. Sulawesi Selatan.
- Rawal Ashmita, Somsubhra Chakraborty, Bin Li, Katie Lewis, Maria Godoy etc. 2019. *Determination of base saturation percentage in agricultural soils via portable X-ray fluorescence spectrometer*. Geoderma
- Reza Septianugraha dan Abraham Suriadikusumah. 2015. *Pengaruh Penggunaan Lahan dan Kemiringan Lereng Terhadap C-Organik dan Permeabilitas Tanah di Sub Das Cisangkuy Kecamatan Pangalengan, Kabupaten Bandung*. Skripsi
- Samanhudi, B. Pujiasmanto, A. Yunus, Supyani, Suntoro, H. Widijanto and S. M. Prabowo, 2017. *The effect of manure and mycorrhiza application to the soil microbes biodiversity in terms of increasing soybean yield in marginal land in Indonesia*. Bulg. J. Agric. Sci., 23 (6): 994–1003
- Sanyal S. K., Dwivedi B. S., Singh V. K., Majumdar K., Datta S. C., Pattanayak S. K., Annapurna K. (2015), *Phosphorus in relation to dominant cropping sequences in India: chemistry, fertility relations and management options*. Current Science, 108(7), 1262-1270.

- Singh A., Gupta R.K., Singh Y.-S. and Singh B. (2013). *Effect of rice husk ash and bagasse ash on inorganic phosphorus fractions and available phosphorus in an alkaline soil under wheat (Triticum aestivum L.)- rice (Oryza sativa L.) cropping system*. Journal of Indian Society of Soil Science 61: 258–260.
- Simanjuntak, B.H. 1997. *Pengaruh Pemberian Pupuk Kandang dan Blue Green Algae Terhadap Sifat Fisik dan Biologi Tanah Ultisol serta Produksi Kedelai (Glycine max L) varietas Willis*. Disertasi. Program Pasca Sarjana Institut Pertanian Bogor.
- Soelaeman Y., Haryati U. (2012), *Soil Physical Properties and Production of Upland Ultisol Soil*. AGRIVITA, Journal of Agricultural Science, 34(2), 136-143.
- Srinivasarao C., Kundu S., Ramachandrappa B. K., Reddy S., Lal R., Venkateswarlu B., Sahrawat K. L., Naik R. P. (2014), *Potassium release characteristics, potassium balance, and finger millet (Eleusine coracana G.) yield sustainability in a 27-year long experiment on an Alfisol in the semi-arid tropical India*. Plant and soil, 374, 315-330.
- Sudaryono. 2009. Tingkat kesuburan tanah ultisol pada lahan pertambangan batubara Sangatta Kalimantan Timur. Jurnal Teknologi Lingkungan. 10(3): 337-346
- Sufardi, Martunis, L. and Muyassir. 2017. Pertukaran Kation pada Beberapa Jenis Tanah di Lahan Kering Kabupaten Aceh Besar Provinsi Aceh (Indonesia). in *Prosiding Seminar Nasional Pascasarjana (SNP) Unsiyah*, pp. 45–53
- Suntoro S., Widijanto H., Suryono, Syamsiyah J., Afinda D. W., Dimasyuri N. R., Triyas V. (2018), *Effect of cow manure and dolomite on nutrient uptake and growth of corn (Zea mays L.)*. Bulgarian Journal of Agricultural Science, 24(6), 1020–1026.
- Supriyadi, Mustikaningrum, I. A., Herawati, A., Purwanto & Sumani (2018). *Soil quality assessment in organic and non organic paddy fields in Susukan, Indonesia*. Bulgarian Journal of Agricultural Science, 24(5), 777–784
- Vaz, A. B. M., I. Sampedro, and J. A. Siles, J. A. Vasquez, I. Garcia-Romera, H. Vierheilig, C. A. Rosa, and J. A. Ocampo, 2012. *Arbuscular mycorrhizal colonization of Sorghum vulgare in presence of root endophytic fungi of Myrtus communis*. Appl Soil Ecol. 61: 288-294.
- Venkata Ramana, C.H., Bhaskar, C.H., Prasada Rao, P.V.V., Byragi Reddy, T., 2015. *Soil quality in four different areas of Visakhapatnam city, Andhra Pradesh, India*. Int. J. Curr. Microbiol. Appl. Sci. 4 (1), 528–532. ISSN: 2319-7706.
- Waluyaningsih SR. 2008. *Studi Analisis Kualitas Tanah pada Beberapa Penggunaan Lahan dan Hubungannya dengan Tingkat Erosi di Sub Das Keduang Kecamatan Jatisrono Wonogiri*. Program Studi Ilmu Lingkungan Program Pascasarjana Universitas Sebelas Maret Surakarta
- Wander MM, Walter GL, Nissen TM, Bollero GA, Andrews SS, dan Cavanaugh-Grant DA. 2002. Soil Quality: Science and Process. Agronomy Journal. 94: 23-32 (US).
- Wibowo, Y.S. 2013. *Pengaruh Sistem Olah Tanah pada Lahan Alang-alang (Imperata cylindrica) terhadap Biomasa Karbon Mikroorganisme Tanah (C-mik) yang Ditanami Kedelai (Glycine max L) Musim Kedua*. Skripsi. Fakultas Pertanian Universitas Lampung. Bandar Lampung.
- Winarso, S., Mandala, M., Sulistiyowati, H., Romadhona, S., Hermiyanto, B., and Subchan, W. 2020. *The decomposition and efficiency of NPK-enriched biochar*

addition on Ultisols with soybean. Sains Tanah Journal of Soil Science and Agroclimatology, 17(1): 35-41

Xiao, S., Zhang, W., Ye, Y., Zhao, J., & Wang, K. 2017. *Soil aggregate mediates the impacts of land uses on organic carbon, total nitrogen, and microbial activity in a Karst ecosystem. Sci Rep 7, 41402*

Yusrial.,S., Notohadisuarno dan S. Wisnubroto. 2004. *Infiltrasi, Sifat Fisik Tanah dan Erosi pada Berbagai Lereng Tangkapan Mikro Sub Das Kali Babon Kabupaten Semarang. Journal Agrosain. Vol. 17. Nomor. 3.*

