

DAFTAR PUSTAKA

- Adeyolanu, O.D. & A.O. Ogunkunle. 2016. Comparison of Qualitative and Quantitative Approaches to Soil Quality Assessment for Agricultural Purposes in South-Western Nigeria. *Cogent Food and Agriculture*. 2: 1149914.
- Agus, F., S. Hardjowigeno, A. Adimiharja, A.M. Fagi & W. Hartatik. 2004. Tanah Sawah dan Teknologi Pengelolaannya. Pusat Penelitian dan Pengembangan Tanah dan Agroklimat. Badan Penelitian dan Pengembangan Pertanian. Departemen Pertanian. Bogor.
- Al-Jabri, M. 2008. Kajian Penetapan Kapasitas Tukar Kation Zeolit sebagai Pembenah Tanah untuk Lahan Pertanian Terdegradasi. *Jurnal Standardisasi* 10 : 56-59
- Andrews, S.S., D.L. Karlen & J.P. Mitchell. 2002. A Comparison of Soil Quality Indexing Methods for Vegetable Production Systems in Northern California. *Journal of Agriculture, Ecosystems and Environment*. 90: 25 – 45.
- Andrews, S.S., D.L. Karlen & C.A. Cambardella. 2004. The Soil Management Assessment Framework: A Quantitative Soil Quality Evaluation Method. *Soil Science Society of America Journal*. 68: 1945 – 1962.
- Armando, S.J., A. Rauf, P. Marpaung & Jamilah. 2016. Perbaikan Sifat Kimia Tanah Sawah Akibat Pemberian Bahan Organik pada Pertanaman Semangka (*Citrullus lanatus*). *Jurnal Agroekoteknologi*. 4 (4) : 2196 – 2201.
- Asdak, C. 2014. Hidrologi dan Pengelolaan Daerah Aliran Sungai. Cetakan 6. Gadjah Mada University Press. Yogyakarta.
- Askari, M.S. & N.M. Holden. 2014. Indices for Quantitative Evaluation of Soil Quality Under Grassland Management. *Geoderma*. 230-231: 131 – 142.
- Arifin, Z. 2011. Analisis Nilai Indeks Kualitas Tanah Entisol pada Penggunaan Lahan yang Berbeda. *J. Agroteksos*. 21 (1): 47 – 54.
- Badan Pusat Statistik Kabupaten Magelang. 2018. Luas Panen (ha), Rata-rata Produksi (kw/ha) dan Produksi Padi (ton) menurut Kecamatan, 2012 – 2015. <https://magelangkab.bps.go.id>. Diakses 25 Desember 2019.
- Baja, S. 2012. Perencanaan Tata Guna Lahan dalam Pengembangan Wilayah Pendekatan Spasial dan Aplikasinya. Penerbit Andi. Yogyakarta.
- Balai Penelitian Tanah. 2009. Analisis Tanah, Tanaman, Air, dan Pupuk. Badan Penelitian dan Pengembangan Pertanian. Departemen Pertanian. Bogor.
- Bastida, F., A. Zsolnay, T. Hernández, C. García. 2008. Past, Present and Future of Soil Quality Indices: A Biological Perspective. *Geoderma* 147, 159 – 171.
- Bhaduri, D., T.J. Purakayastha. 2014. Long-Term Tillage, Water and Nutrient Management in Rice-Wheat Cropping System: Assessment and Response of Soil Quality. *Soil Tillage Res.* 144, 83 – 95.
- Bhardwaj, A.K., P. Jasrotia, S.K. Hamiltona, G.P. Robertson. 2011. Ecological Management of Intensively Cropped Agro-Ecosystems Improves Soil Quality with Sustained Productivity. *Agric. Ecosyst. Environ.* 140, 419 – 429.



- Biswas, S., G.C. Hazra, T.J. Purakayastha, N. Saha, T. Mitran, R.S. Singha, N. Basak & B. Mandal. 2017. Establishment of Critical Limits of Indicators and Indices of Soil Quality in Rice-Rice Cropping Systems Under Different Soil Orders. *Geoderma*. (292): 34 – 48.
- Blake, G.R. & K.H. Hartge. 1986. Bulk density. p. 363-376. In A. Klute (Ed.). *Methods of Soil Analysis. Part 1*, 2nd ed. Agronomy 9. Soil Sci. Soc. Am., Madison, Wisconsin.
- Brady, N.C. 1990. *The Nature and Properties of Soil*. Mac Millan Publishing Co., New York.
- Budianto, Y. 2016. Keterdapatan Sensitive Clay pada Lokasi Logsorlahan di DAS Bompon, Kabupaten Magelang, Jawa Tengah. Skripsi. Universitas Gadjah Mada. Yogyakarta.
- Darmawijaya, M.I. 1997. *Klasifikasi Tanah: Dasar Teori Bagi Peneliti Tanah dan Pelaksana Pertanian di Indonesia*. Yogyakarta: Gadjah Mada University Press.
- Djaenuddin, D., H. Marwan, H. Subagyo, A. Mulyani, N. Suharta. 2000. *Kriteria Kesesuaian Lahan untuk Komoditas Pertanian*. Pusat Penelitian Tanah dan Agroklimat. Badan Penelitian dan Pengembangan Pertanian, Departemen Pertanian. Bogor
- Ernawati, R. 2005. *Studi Sifat-Sifat Fisik dan Kimia Tanah pada Tanah Timbunan Lahan Bekas Penambangan Batubara di PT. Tambang Batubara Bukit Asam (Persero) Tbk. Tanjung Enim, Sumatera Selatan*. Tesis. Yogyakarta: Fakultas Geografi UGM.
- Farni, Y., H. Junedi & Marwoto. 2010. Studi Beberapa Sifat Fisika Tanah pada Beberapa Umur Persawahan di Kecamatan Pelayung. *Jurnal Penelitian Universitas Jambi Seri Sains*. 12 (2): 13 – 18.
- Fierer, N., M.A. Bradford & R.B. Jackson. 2007. Toward An Ecological Classification of Soil Bacteria. *Ecology*. 88: 1354 – 1364.
- Forth, H.D. 1990. *Fundamentals of Soil Science*, 8th edition. Michigan State University. John Wiley and Sons.
- Gizawi, A. S., S. Ritohardoyo & E. Haryono. *Kajian Ekologi Bentanglahan dan Persepsi Masyarakat terhadap Panas Bumi*. *Majalah Geografi Indonesia* 31(1): 1-11.
- Guo, L., Z. Sun, Z. Ouyang, D. Han & F. Li. 2017. A Comparison of Soil Quality Evaluation Methods for Fluvisol Along the Lower Yellow River. *J. Catena* 152: 135 –143.
- Hakim, N., M. Y. Nyakpa, A. M. Lubis, S. G. Nugroho, M. A. Diha, G. B. Hong, H. H. Bailey, 1986. *Dasar-Dasar Ilmu Tanah*. Universitas Lampung, Lampung
- Hardjowigeno, S. 1986. *Genesis dan Klasifikasi Tanah*. Jurusan Tanah, Fakultas Pertanian IPB: Bogor
- Hardjowigeno, S. 1992. *Ilmu Tanah*. Mediatama Sarana Perkasa. Jakarta.
- Hardjowigeno, S. 1993. *Klasifikasi Tanah dan Pedogenesis*. Akademika Pressindo. Jakarta.
- Hardjowigeno, S. & M.L. Rayes. 2005. *Tanah Sawah*. Bayumedia Publishing. Malang.



- Hardjowigeno, S. 2016. *Klasifikasi Tanah dan Pedogenesis*. Akademia Pressindo. Bekasi.
- Havlin, J.L., J.D. Beaton, S.L. Tisdale & W.L. Nelson. 2005. *Soil Fertility and Fertilizers. An Introduction to Nutrient Management* 7th edition. Pearson Prentice Hall. Upper Saddle River, New Jersey.
- Heal, O.W., J.M. Anderson & M.J. Swift. 1997. Plant Litter Quality and Decomposition: An Historical Overview. In *Dirven by Nature Plant Litter Quality and Decomposition*, (Eds Cadisch, G. and Giller, K.E), pp. 3-30. Department of Biological Sciences., Wey College., University of London, UK.
- Jenny, H. 1941. *Factors of Soil Formation*. Dover Publications, Inc. New York.
- Karlen, D.L., C.A. Ditzler & S.S. Andrews. 2003. Soil Quality: Why and How?. *Geoderma*. 114: 145 – 156.
- Karlen, D.L., S.S. Andrews, B.J. Wienhold & T.M. Zobeck. 2008. Soil Quality Assessment: Past, Present and Future. *Journal of Integrative Biosciences*. (6): 3 – 14.
- Katili, J.A. 1983. *Sumberdaya Alam untuk Pembangunan Nasional*. Jakarta: Ghalia Indonesia.
- Kurnia, U., F. Agus, A. Adimihardja, A. Dariah. 2006. *Sifat Fisik Tanah dan Metode Analisisnya*. Balai Besar Litbang Sumberdaya Lahan Pertanian, Badan Penelitian dan Pengembangan Pertanian, Departemen Pertanian. Bogor.
- Larson, W.E. & F.J. Pierce. 1994. The Dynamics of Soil Quality as A Measure of Sustainable Management. *Soil Sci. Soc. Am. Special Publ.* 35: 37 – 51.
- Malik, F.M. 2017. *Pemetaan Geomorfologi Detail Menggunakan Teknik Step-Wise-Grid di Daerah Aliran Sungai (DAS) Bompon Kabupaten Magelang, Jawa Tengah*. Skripsi. Universitas Gadjah Mada. Yogyakarta.
- Manan, S. 1979. *Pengaruh Hutan dan Manajemen Daerah Aliran Sungai*. Fakultas Kehutanan, Institut Pertanian Bogor. Bogor.
- Martini, J.A. 1970. Allocation of Cation Exchange Capacity to Soil Fractions in Seven Surface Soil from Panama and The Application of A Cation Exchange Factor as A Weathering Index. *Soil Sci.* 109: 324-331.
- Masto, R.E., P.K. Chhonkar, D. Singh & A.K. Patra. 2007. Soil Quality Response to Long-Term Nutrient and Crop Management on A Semi-Arid Inceptisol. *Agriculture Ecosystems and Environment*. 118: 130 – 142.
- Mirsal, I. A. 2008. *Soil Pollution: Origin, Monitoring & Remediation* (2nd ed.). Berlin: Springer.
- Mukhopadhyay, S., R.E. Masto, A. Yadav, J. George, L.C. Ram & S.P. Shukla. 2016. Soil Quality Index for Evaluation of Reclaimed Coal Mine Spoil. *Journal of Science of The Total Environment*. 542: 540 – 550.
- Notohadiprawiro, T. 1989. *Dampak Pembangunan terhadap Aspek Lingkungan dan Pengelolaan, Kementerian Negara Kependudukan dan Lingkungan Hidup. Kursus Dasar-Dasar AMDAL*. UGM. Yogyakarta.
- Notohadiprawiro, T. 2006. *Pendayagunaan Pengelolaan Tanah untuk Proteksi Lingkungan*. Jurusan Ilmu Tanah, Fakultas Pertanian UGM: Yogyakarta
- Pan, G., P. Zhou, Z. Li, P. Smith, L. Li, D. Qiu, X. Zhang, X. Xu, S. Shen & X. Chen. 2009. Combined Inorganic/Organic Fertilization Enhances N

- Efficiency and Increases Rice Productivity Through Organic Carbon Accumulation in A Rice Paddy from The Tai Lake Region, China. *Agriculture, Ecosystems and Environment*. 131: 274 – 280.
- Prayitno, A., J. Sartohadi & M. Nurudin. 2019. Utilization of Soil Fuction 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.
- Pulungan, N.A., J. Sartohadi. 2018. New Approach to Soil Formation in The Transitional Zone: Weatheringand Alteration of Parent Rocks. *Journal of Environments* 5 (1): 1 – 7.
- Pusat Penelitian dan Pengembangan Tanah dan Agroklimat. 2004. Tanah Sawah dan Teknologi Pengelolaannya. Puslitbangtanak. Bogor.
- Rahayu, A., S.R. Utami, M.L. Rayes. 2014. Karakteristik dan Klasifikasi Tanah pada Lahan Kering dan Lahan yang disawahkan di Kecamatan Perak Kabupaten Jombang. *Jurnal Tanah dan Sumberdaya Lahan*. 1 (2): 79 – 87.
- Rashidi, M., M. Seilsepour, I. Ranjbar, M. Gholami & S. Abbassi. 2010. Evaluation of Some Soil Quality indicators in the Varamin Region. *World Applied Sciences Journal*. 9(1): 101 – 108.
- Sambodo, A.P., M.A. Setiawan & R.P. Rokhmaningtyas. 2018. The Evaluation of Modified Productivity Index Method on The Transitional Volcanic-Tropical Landscape. *IOP Conf. Ser.: Earth Environ. Sci*.
- Sartohadi, J., Jamulya, N.I.S. Dewi. 2012. Pengantar Geografi Tanah. Yogyakarta: Pustaka Pelajar.
- Schaetzl, R. J. 2013. Catenas and soils. Elsevier Inc. 4 : 145–158.
- Schaetzl, R.J. & S. Anderson. 2005. Soils Genesis and Geomorphology. Cambridge University Press. New York. ISBN: 978-0-511-11104-4.
- Schoeneberger, P.J., D.A. Wysocki, E.C. Benham & Soil Survey Staff. 2012. Field Book for Describing and Sampling Soils. Version 3.0. Natl. Soil Surv. Ctr. Lincoln, NE.
- Sinha, N.K., M. Mohanty, B.P. Meena, H. Das, U.K. Chopra & A.K. Singh. 2014. Soil Quality Indicators Under Continuous Cropping Systems in The Arid Ecosystem of India. *African Journal of Agricultural Research*. 9 (2): 285 – 293.
- Soil Survey Staff. 2014. Keys To Soil Taxonomy. Twelfth Edition. 2014. United States Departement of Agriculture-Natural Resources Conservation Service. Washington, DC.
- Son T.T.N., V.V. Thu, L.H. Man, H. Kobayashi & R. Yamada. 2004. Effect of Long-Term Application of Organic and Biofertilizer on Soil Fertility Under Rice – Soybean – Rice Cropping System. *Omonrice*. 12 : 45-51.
- Sudaryanto, R. 2009. Penyawahan Terus Menerus Memacu Percepatan Pelapukan Tanah. *Jurnal Ilmiah Ilmu Tanah dan Agroklimatologi*. 6 (1): 35 – 41.
- Sugiyono. 2010. Metode Penelitian Kuantitatif, Kualitatif dan R & D. Bandung: Alfabeta. ISBN: 979-8433-64-0.



- Sunarminto, B.H., M. Nurudin, Sulakhudin & C. Wulandari. 2014 Peran Geologi dan Mineralogi Tanah untuk Mendukung Teknologi Tepat Guna dalam Pengelolaan Tanah Tropika. Gadjah Mada University Press.
- Suntoro, 2001. Pengaruh Residu Penggunaan Bahan Organik, Dolomit dan KCl pada Tanaman Kacang Tanah (*Arachis hypogaeae*. L.) pada Oxic Dystrudept di Jumapolo, Karanganyar, Habitat, 12(3) 170-177.
- Suprihatno, B., A.A. Daradjat, Satoto, Baehaki, I.N. Widiarta, A. Setyono, S.D. Indrasari, O.S. Lesmana, H. Sembiring. 2009. Deskripsi Varietas Padi. Balai Besar Penelitian Tanaman Padi, Badan Penelitian dan Pengembangan Pertanian, Departemen Pertanian. Subang. ISBN: 979-540-026-6.
- Sutanto, R. 2005. Dasar-Dasar Ilmu Tanah. Yogyakarta: Kanisius.
- Utomo, M., Sudarsono, B. Rusman, T. Sabrina, J. Lumbanraja & Wawan. 2016. Ilmu Tanah Dasar-dasar dan Pengelolaan. Prenadamedia Group. Jakarta.
- Van Breemen, N. & P. Burman. 2003. Soil Formation. 2nd. Kluwer Academic Publishers. New York.
- Wander, M.M., G.L. Walter, T.M. Nissen, G.A. Bollero, S.S. Andrews & Cavanaugh-Grant DA. 2002. Soil Quality: Science and Process. Agronomy Journal. 94: 23 – 32 (US).
- Wida, W.A., A. Maas, J. Sartohadi. 2019. Pedogenesis of Mt. Sumbing Volcanic Ash above the Alteration Clay Layer in the Formation of Landslide Susceptible Soils in Bompon Sub-Watershed. Agricultural Science Journal. Vol. 4: 15 – 22.
- Wakatsuki, T., & A. Rasyidin. 1992. Rates of Weathering and Soil Formation. Geoderma, 52, 251-263.
- Ziemer R.R. 1981. Roots and The Stability of Forested Slopes. Erosion and Sediment Transport in Pasific Rim Steeplands. IAHS Publ no.132.