

DAFTAR PUSTAKA

- Adnyana, I. M., Bimantara, P. O., and Roni, N. G. K. (2025). Enhancing Soil Fertility Through Azolla Incorporation: Impacts on Nitrogen Cycling and Cation Exchange Capacity. *Organic Farming*, 11(1), 1–12.
- Ahmad, A., Lopulisa, C., Imran, A. M., and Baja, S. (2018). Soil physicochemical properties to evaluate soil degradation under different land use types in a high rainfall tropical region: A case study from South Sulawesi, Indonesia. *IOP Conference Series: Earth and Environmental Science*, 157(1).
- Aina, O., Agboola, K., Owoeye, M., and Ayodele, F. (2019). Comparison between the Bulk Density of Fallowed and Continuously Cultivated Lands: A Case Study of Kogi State University Research Farm. *East African Scholars J Agri Life Sci*, 2(8), 414–419.
- Arifin, Z., Bertham, Y. H., and Putranto, A. M. H. (2025). Soil quality trends across successive stages of post-coal mining reclamation. *Journal of Degraded and Mining Lands Management*, 12(3), 7581–7589.
- Battacharyya. (2015). Minimum threshold value of smectite for vertic properties. *Australian Journal of Soil Research*, January 2000.
- Budirianto, H. J., and Damopolii, I. (2022). Impact of the time of returning soil fertility in the fallow land of Arfak Tribe in West Papua. *Jurnal Biologi Tropis*, 22(2), 360–367.
- Dewi, W. S., Purwanto, Anisa, S. S., and Hartati, S. (2024). Assessing soil fertility index under different forest land cover. *Sains Tanah*, 21(2), 179–190.
- Dewiyanti, I., Darmawi, D., Muchlisin, Z. A., Helmi, T. Z., Imelda, I., and Defira, C. N. (2021). Physical and chemical characteristics of soil in mangrove ecosystem based on differences habitat in Banda Aceh and Aceh Besar. *IOP Conference Series: Earth and Environmental Science*, 674(1).
- Erwinda, E., Muslim, R. Q., Pratamaningsih, M. M., Hati, D. P., Kricella, P., Suryani, E., and Susilawati, H. L. (2025). The Linkage of Soil pH, Phosphorus Availability, and Exchangeable Aluminum in Andisol and Recommendations for Soil Improvement. *Jurnal Ilmu Pertanian Indonesia*, 30(3), 464–472.
- Faisol, A., Paga, B. O., dan Situngkir, R. U. (2021). Evaluasi Kebijakan Pengembangan Kawasan Pertanian di Provinsi Papua Barat Melalui Analisis Iklim Oldeman dan Data Climate Hazards Group Infrared Precipitation with Stations An Evaluation of Agricultural Area Development Policy in West Papua Using Oldeman. *Jurnal Agritecnology*, 4(2), 57–71.
- Galela, N., Hartati, T. M., Sunarminto, B. H., Nuryani, S., and Utami, H. (2023). Distribution of soil morphology and physicochemical properties to assess the evaluation of soil fertility status using soil fertility capability classification in Distribution of soil morphology and physicochemical properties to assess the

- evaluation of s. *Journal of Degraded and Mining Lands Management*, April.
- Guillaume, C. T., Maranguit, D., Kuzyakov, K. M., and Yakov, A. (2016). Sensitivity and resistance of soil fertility indicators to land-use changes: New concept and examples from conversion of Indonesian rainforest to plantations. *Ecological Indicators*, 67.
- Gursoy, S. (2021). We are IntechOpen , the world ' s leading publisher of Open Access books Built by scientists , for scientists. *Technology in Agriculture*, June.
- Harahap, P., Harahap, K. M., Pulungan, S., dan Syawal, F. (2019). Pengaruh Penambahan Berbagai Komposisi Bahan Organik Terhadap Karakteristik Hidroton Sebagai Media Tanam. *Jurnal Pertanian Tropik Jurnal Pertanian Tropik*, 6(2), 180–189.
- Hariahya, N. Z., Zusra, L., Lu, M., and Lutfan, M. (2025). *Pengaruh Porosit Tanah di Dieng terhadap Dinamika Zat Hara dan Racun dari Pupuk Organik*. 03(04), 329–337.
- Hartati, W., and Sudarmadji, T. (2016). Relationship between soil texture and soil organic matter content on mined-out lands in Berau, East Kalimantan, Indonesia. *Nusantara Bioscience*, 2, 137–143.
- Husna, M., and Pratiwi, E. (2021). Respons Hasil Padi dan Hara Tanah Sawah terhadap Bakteri Pelarut Fosfat dan Pemfiksasi Nitrogen Response of Rice Yield and Soil Nutrients to Phosphate Solubilizing Bacteria and Nitrogen Fixer. *Agrotechnology Research Journal*, 5(2), 91–96.
- Khadka, D., Lamichhane, S., Bhandana, P., Timilsina, A. P., Ansari, A. R., Sah, K., Joshi, B. D., and Joshi, S. (2019). Soil analysis gis-based fertility assessment and mapping of agricultural research station, Pakhribas, Dhankuta, Nepal. *Polish Journal of Soil Science*, 52(1), 23–42.
- Lestari, N. D., Habib, R., Ayu, I. W., dan Wicaksono, K. S. (2025). Biofisik Tanah Pada Berbagai Sistem Agroforestri. *Jurnal Riset Kajian Teknologi Dan Lingkungan*, 319–328.
- Mansyur, N. I., Antonius, A., and Titing, D. (2023). Karakteristik Fisika Tanah Pada Beberapa Lahan Budidaya Tanaman Hortikultura Lahan Marginal. *Jurnal Ilmiah Respati*, 14(2), 190–200.
- McLeod, M. K., Sufardi, and Harden, S. (2020). Soil fertility constraints and management to increase crop yields in the dryland farming systems of Aceh, Indonesia. *Soil Research*, 3, 276–285.
- Minasny, B., Akoeb, E. N., Sabrina, T., and Wadoux, A. M. J. C. (2020). History and interpretation of early soil and organic matter investigations in Deli, Sumatra, Indonesia. *Catena*.
- Mujiyo, M., Naaifah, M. I., Suntoro, S., and Maro'ah, S. (2024). A Comparative Study of Soil Fertility in Organic, Semi-Organic, and Conventional Rice Field Farming Systems (Case Study: Nguntoronadi District, Wonogiri, Indonesia).

Yuzuncu Yil University Journal of Agricultural Sciences, 34(1), 44–61.

- Mujiyo, Nariyanti, S., Suntoro, Herawati, A., Herdiansyah, G., Irianto, H., Riptanti, E. W., and Qonita, A. (2022). Soil fertility index based on altitude: A comprehensive assessment for the cassava development area in Indonesia. *Annals of Agricultural Sciences*, 67(2), 158–165.
- Murtinah, V., and Komara, L. L. (2021). Soil Physical Properties Development in Post-Coal Mining Rehabilitation Area in East Kutai District, East Kalimantan Indonesia. *Proceedings of the Joint Symposium on Tropical Studies (JSTS-19)*, 11(Figure 1), 397–402.
- Nadalia, D., Hartono, A., and Nugraha, S. H. (2025). Evaluation of Soil Fertility in Some Farmlands in the North and South of Brebes District, Central Java, Indonesia. *IOP Conference Series: Earth and Environmental Science*, 1463(1).
- Nariyanti, S., Herawati, A., and Herdiansyah, G. (2022). Soil fertility index based on altitude: A comprehensive assessment for the cassava development area in Indonesia. *Scientia Horticulturae*.
- Pasaribu, N. P., Wahjunie, E. D., and Tarigan, S. D. (2023). Characteristics of soil physical properties in different soil management of oxisols and inceptisols. *Agrovigor: Jurnal Agroekoteknologi*, 16(2), 83–90.
- Prasetyo, H., Setyobudi, R. H., Adinurani, P. G., Vincēviča-Gaile, Z., Fauzi, A., Pakarti, T. A., Tonda, R., Minh, N. Van, and Mel, M. (2022). Assessment of Soil Chemical Properties for Monitoring and Maintenance of Soil Fertility in Probolinggo, Indonesia. *Proceedings of the Pakistan Academy of Sciences: Part B*, 59(4), 99–113.
- Purwanto, B. H., and Alam, S. (2020). Impact of intensive agricultural management on carbon and nitrogen dynamics in the humid tropics. *Soil Science and Plant Nutrition*, 66(1), 50–59.
- Putri, A., Saleh, E., dan Siswanto, A. (2025). Analisis Tingkat Resapan Tanah Berdasarkan Pengukuran Permeabilitas Tanah pada Sub DAS Bendung Palembang. *Jurnal Penelitian Dan Kajian Bidang Teknik Sipil*.
- Putri, S. K., Baskoro, D. P. T., and Rachman, L. M. (2021). Analysis of Soil Physics Quality Index in Terms of Soybean Crop Productivity. *Jurnal Tanah Dan Iklim*, 45(2), 163.
- Ridwan, M., dan Sarjito, J. (2022). Studi Kajian Dampak Perubahan Tutupan Lahan terhadap Kejadian Banjir di Daerah Aliran Sungai. *Enviro: Journal of Tropical Environmental Research*.
- Rifqi, M., Jauhary, A., and Munir, M. (2025). Biopore Infiltration Holes With Organic Fertilizer For Enhancing Soil Nutrients And Coffee Production In Acidic Clay Soils. *Jurnal Tanah Dan Sumberdaya Lahan*, 12(1), 45–55.
- Santoso, N. A., Iqbal, M., Ekawati, G., and Firdaus, R. (2019). Study of pH and Magnetic Susceptibility to Fertility Rate of Agricultural Soil around Institut

- Teknologi Sumatera, Lampung, Indonesia. *IOP Conference Series: Earth and Environmental Science*, 258(1), 0–4.
- Saputra, D. D., Putrantyo, A. R., and Kusuma, Z. (2018). Relationship Between Soil Organic Matter Content and Bulk Density , Porosity , and Infiltration Rate on Salak Plantation of Purwosari District , Pasuruan Regency. *Jurnal Tanah Dan Sumberdaya Lahan*, 5(1), 647–654.
- Sariani, S., dan Ladonu, M. I. (2025). Identifikasi Kesuburan Tanah pada Penggunaan Lahan Berbeda di Kecamatan Tinangkung Selatan Kabupaten Banggai Kepulauan. *Agrikultura*, 36(2), 321–331.
- Sasminto, R. A., Tunggul, A., dan Rahadi, J. B. (2017). Analisis Spasial Penentuan Iklim Menurut Klasifikasi Schmidt-Ferguson dan Oldeman di Kabupaten Ponorogo. *Jurnal Sumberdaya Alam Dan Lingkungan*, 51–56.
- Sasongko, P. E., Dewi, W. S., and Hidayat, R. (2022). Assessment of soil fertility using the soil fertility index method on several land uses in Tukur District, Pasuruan Regency of East Java. *Journal of Degraded and Mining Lands Management*, 10, 37–87.
- Setiawan, B., Yudono, P., dan Waluyo, S. (2018). Evaluasi Tipe Pemanfaatan Lahan Pertanian dalam Upaya Mitigasi Kerusakan Lahan Di Desa Giritirta, Kecamatan Pejawaran, Kabupaten Banjarnegara. *Vegetalika*, 7(2), 1.
- Singh, J., Salaria, A., and Kaul, A. (2015). Impact of soil compaction on soil physical properties and root growth: A review. *International Journal of Food*, 5(1), 23–32.
- Sufardi, Darusman, Zaitun, Zakaria, S., and Karmil, T. F. (2018). Chemical Characteristics and Status of Soil Fertility on Some Dryland Areas of Aceh Besar District (Indonesia). *Proceedings of International Conference On Sustainable Agriculture (ICOSA 2017) : Eco-Farming in Managing Global Change*, July, 1–7.
- Sulaeman, Y., Maftuáh, E., Noor, M., Hairani, A., Nurzakiah, S., Mukhlis, M., Anwar, K., Fahmi, A., Saleh, M., Khairullah, I., Rumanti, I. A., Alwi, M., Noor, A., and Ningsih, R. D. (2024). Coastal Acid-Sulfate Soils of Kalimantan, Indonesia, for Food Security: Characteristics, Management, and Future Directions. *Resources*, 13(3).
- Sulakhudin, Denah Suswati, dan S. G. (2017). Kajian Status Kesuburan Tanah Pada Lahan Sawah Di Kecamatan Sungai Kunyit Kabupaten Menpawah. *Jurnal Pedon Tropika*, 3, 106–114.
- Suntoro, S., Herdiansyah, G., and Mujiyo, M. (2024). Nutrient status and soil fertility index as a basis for sustainable rice field management in Madiun Regency, Indonesia. *Sains Tanah*, 21(1), 22–31.
- Supriyadi, Vera, I. L. P., and Purwanto. (2021). Soil Quality at Rice Fields with Organic, Semi-organic and Inorganic Management in Wonogiri Regency, Indonesia. *Caraka Tani: Journal of Sustainable Agriculture*, 36(2), 259–269.

- Tinuntun, R. S. T., Dewi, W. S., Mujiyo, Herawati, A., Rahayu, Herdiansyah, G., Sumani, Cahyo, A., Widjojo, B. G., Prasetyo, B. B., and Kotroczó, Z. (2025). Pedotransfer functions for soil organic carbon stock and soil porosity interpretation in diverse palm oil plantation soils. *Sains Tanah*, 22(1), 231–243.
- Trigunasih, N. M., Narka, I. W., and Saifulloh, M. (2023). Measurement of Soil Chemical Properties for Mapping Soil Fertility Status. *International Journal of Design and Nature and Ecodynamics*, 18(6), 1381–1390.
- Utami, T. M. H., Sunarminto, B. H., and Utami, S. N. H. (2023). Morphology and physicochemical properties to assess soil fertility status using soil fertility capability classification in North Galela, Indonesia. *Journal of Degraded and Mining Lands Management*, 3.
- Widijanto, H., Amalia, R. S., Syamsiyah, J., and Suntoro. (2023). A comparison of the dynamics and carbon stocks in rice fields with different management systems and soil types. *Journal of Aridland Agriculture*, 9, 31–38.
- Yunanto, T., Amanah, F., Wulansari, A. R., and Wisnu, N. P. (2022). Effect of soil properties on plant growth and diversity at various ages of coal mine reclamation in Indonesia. *Biodiversitas*, 23(1), 459–468.