

DAFTAR PUSTAKA

- Agustian, I., dan Simanjuntak, B. H. (2018). Penilaian Status Kesuburan Tanah dan Pengelolaannya, di Kecamatan Karanggede, Kabupaten Boyolali, Jawa Tengah. *Prosiding Konser Karya Ilmiah Tingkat Nasional Tahun 2018*, 255–264.
- Aibekob, V. G., Rondonuwu, J. J., dan Kawulusan, R. I. (2024). Study Of The Status Of Potassium Nutrients And Soil Ph On Rice Lands In Kolongan Village, Kalawat District. *Soil and Envirinment Journal*, 2(1), 1–5. <https://doi.org/https://doi.org/10.35791/saej.v2i1.58863>
- Aji, A. B., Maroeto, dan Arifin, M. (2024). Status Kesuburan Tanah Sebagai Rekomendasi Perbaikan Lahan pada Berbagai Tingkat Kemiringan Lereng di Kecamatan Wonosalam Kabupaten Jombang. *Agrotika*, 7(1), 1–10. <https://doi.org/https://doi.org/10.55043/agroteknika.v7i1236>
- Akbar, R., dan Zainuddin, R. (2023). Pemetaan Sifat Kimia Tanah pada Beberapa Penggunaan Lahan di Desa Boyantongo Kecamatan Parigi Selatan Kabupaten Parigi Moutong. *Agrotekbis : E-Jurnal Ilmu Pertanian*, 11(5), 1104–1110. <https://doi.org/10.22487/agrotekbis.v11i5.1831>
- Alinda, S. N., Setiawan, A. Y., dan Sudrajat, A. (2021). Alih Fungsi Lahan dari Sawah Menjadi Perumahan di Kampung Gumuruh Desa Nagrak Kecamatan Cangkuang Kabupaten Bandung. *Geoarea*, 04(02), 55–67.
- Alwi, M. K., Razie, F., dan Kurnain, A. (2023). Hubungan Ketersediaan Fosfor dan Kelarutan Fe pada Tanah Sawah Sulfat Masam. *Acta Solum*, 2(2), 61–67. <https://doi.org/10.20527/actasolum.v1i2.1839>
- Amadou, I., Faucon, M., dan Houben, D. (2022). Role of Soil Minerals on Organic Phosphorus Availability and Phosphorus Uptake by Plants. *Geoderma*, 428(July), 116125. <https://doi.org/10.1016/j.geoderma.2022.116125>
- Anago, F. N., Dagbenonbakin, G. D., dan Amadji, G. L. (2025). Soil Fertility Index of Paddy Land in Benin : Understanding of Factors Driving Sustainable Soil Use and Management. *Discov. Soil*, 2(11), 1–18. <https://doi.org/https://doi.org/10.1007/s44378-025-00144-2>
- Aqidah, N., Ibrahim, B., dan Saida. (2024). Determination of Soil Fertility Index in Various Land Uses in Jenelata Sub - watershed, Gowa Regency. *Jurnal Agrotek*, 8(2), 76–83.
- Arumtanzia, N., Rusdiana, O., dan Mindawati, N. (2024). Analisis Kesuburan Tanah pada Berbagai Kerapatan Tajuk di Jasinga Silviculture Teaching Industry. *Jurnal Penelitian Hutan Tanamn*, 21(2), 72–86.
- Astuti, R., Andrian, A., Maulidin, A., Ariesta, A., Natalia, S., dan Islamiati, S. M. (2024). Optimalisasi Produktivitas Pertanian Melalui Analisis Kesuburan Tanah Menggunakan Perangkat Uji Tanah Kering (PUTK) di Pasir Haur, Sukawening, Ciwidey. *Sadeli: Jurnal Pengabdian Kepada Masyarakat*, 4(2), 103–117.

- Bashir, O., Ahmad, S., Shuja, S., Senesi, N., Naikoo, B., Kader, S., dan Jaufer, L. (2024). Unlocking the Potential of Soil Potassium : Geostatistical Approaches for Understanding Spatial Variations in Northwestern Himalayas. *Ecological Informatics*, 81(April), 102592. <https://doi.org/10.1016/j.ecoinf.2024.102592>
- Beltran, D. J. B., Carig, E. T., Vallesteros, A. P., dan Pablo, P. B. (2025). Soil Fertility Assessment in Agroforestry Farms Within Community-Based Forest Management Areas in Diffun, Quirino, Philippines. *Probe-Soil Science*, 7(1), 1–20. <https://doi.org/https://doi.org/10.18686/ss2297>
- Bolly, Y. Y., dan Apelabi, G. O. (2022). Analisis Kandungan Bahan Organik Tanah Sawah Sebagai Upaya Penilaian Kesuburan Tanah di Desa Magepanda Kecamatan Magepanda Kabupaten Sikka. *Agrica*, 15(1), 26–32. <https://doi.org/10.37478/agr.v15i1.1919>
- Breure, M. S., Eynde, E. Van, Kempen, B., Comans, R. N. J., dan Hoffland, E. (2022). Transfer Functions for Phosphorus and Potassium Soil Tests and Implications for The QUEFTS model. *Geoderma*, 406(January), 1–9. <https://doi.org/10.1016/j.geoderma.2021.115458>
- Butar, M. E. B., Chotimah, H. E. N. C., Widyawati, D. S. W., dan Damanik, Z. (2024). Pengaruh Pupuk Kotoran Kambing dan Pupuk NPK Terhadap Pertumbuhan Sawi Pagoda (*Brassica narinosa* L) dan Derajat Kemasaman Tanah Gambut Pedalaman. *Jurnal Daun*, 11(2), 141–153. <https://doi.org/https://doi.org/10.33084/daun.v11i2.7193>
- Chaudhary, N., Lal, S., Singh, R., Meena, M., dan Singh, S. (2025). Effect of Organic Amendments on Sustainable Production, Quality and Soil Fertility in *Nigella* (*Nigella sativa* L.). *Discover Agriculture*, 3(39), 1–12. <https://doi.org/10.1007/s44279-025-00183-x>
- Chavez, J., Nijman, V., Ketut, D., Sukmadewi, T., Sadnyana, M. D., Manson, S., dan Campera, M. (2024). Impact of Farm Management on Soil Fertility in Agroforestry Systems in Bali, Indonesia. *Sustainability*, 16(7874), 1–15. <https://doi.org/https://doi.org/10.3390/su16187874>
- Chen, J., Qu, M., Zhang, J., Xie, E., Huang, B., dan Zhao, Y. (2021). Soil Fertility Quality Assessment Based on Geographically Weighted Principal Component Analysis (GWPCA) in Large-Scale Areas. *Catena*, 201(February), 1–11. <https://doi.org/10.1016/j.catena.2021.105197>
- Deroo, H., Akter, M., Bodé, S., Mendoza, O., Li, H., Boeckx, P., dan Sleutel, S. (2021). Effect of Organic Carbon Addition on Paddy Soil Organic Carbon Decomposition under Different Irrigation Regimes. *Biogeosciences*, 18, 5035–5051. <https://doi.org/https://doi.org/10.5194/bg>
- Dewi, W. S., Purwanto, Anisa, S. S., dan Hartati, S. (2024). Assessing Soil Fertility Index under Different Forest Land Cover. *Sains Tanah*, 21(2), 179–190. <https://doi.org/10.20961/stjssa.v21i2.67056>
- Elfarsina, Rahmayuni, E., Herman, W., Putri, E. L., dan Kurniati. (2024). Soil Organic Matter and Its Correlation with Several Chemical Properties of Inceptisols in Rice Fields in Java. *Universal Journal of Agricultural Research*, 12(2), 242–248. <https://doi.org/10.13189/ujar.2024.120204>

- Erşahin, S., Tohumcu, F., dan Çallı, R. (2025). Exploring Geospatial Link Between Soils and National Intelligence Quotient. *Scientific Reports*, 15, 1–14. <https://doi.org/https://doi.org/10.1038/s41598-025-22539-5> 1
- Faery, D., Harefa, C., Zebua, M., Nias, U., Zebua, M., dan Gunungsitoli, U. N. (2024). Peran Kapasitas Tukar Kation dalam Mempertahankan Kesuburan Tanah pada Berbagai Jenis Tekstur Tanah. *Jurnal Ilmu Pertanian Dan Perikanan*, 01(01), 165–170.
- Ferry, M., Saad, A., dan Farni, Y. (2024). Evaluasi Status Kesuburan Tanah di Masa Replanting Perkebunan Kelapa Sawit pada Tanah Minireal Provinsi Jambi. *Jurnal Tanah Dan Sumberdaya Lahan*, 11(1), 17–27. <https://doi.org/10.21776/ub.jtsl.2024.011.1.3>
- Firdaus, M. I., dan Yuliani, E. (2022). Kesesuaian Lahan Permukiman Terhadap Kawasan Rawan Bencana Longsor. *Jurnal Kajian Ruang*, 1(2), 216–237. <https://doi.org/10.30659/jkr.v1i2.20030>
- Fitria, A. D., Sudarto, dan Syahrul Kurniawan. (2021). Land-use Changes and Slope Positions Impact on The Degradation of Soil Functions in Nutrient Stock Within The Kalikungkuk Micro Watershed, East Java, Indonesia. *Journal of Degraded and Mining Lands Management*, 8(2), 2689–2702. <https://doi.org/10.15243/jdmlm>.
- Gunasekaran, K., Karmel, A., dan Sreevardhan, P. (2025). Real-Time Soil Fertility Analysis, Crop Prediction, and Insights Using Machine Learning and Deep Learning Algorithms. *Frontiers in Plant Science*, 5(October), 1–27. <https://doi.org/10.3389/fsoil.2025.1652058>
- Guo, B., Zhou, J., Zhan, L., Wang, Z., Wu, W., dan Liu, H. (2024). Spatial and Temporal Variability of Soil pH , Organic Matter and Available Nutrients (N, P and K) in Southwestern China. *Agronomy*, 14(1796), 2–16. <https://doi.org/https://doi.org/10.3390/agronomy14081796>
- Hammad, J. A., Soumaia, M., Chaabane, B., Bayati, A. I. Al, dan Majdoub, R. (2025). High-resolution Baseline Digital Mapping of Soil Fertility in The Euphrates Basin, Western Iraq. *Soil Science Annual*, 76(3), 1–11. <https://doi.org/https://doi.org/10.37501/soilsa/207765> High-resolution
- Hasanah, F., Setiawan, I., Noor, T. I., dan Yudha, E. P. (2021). Pemetaan Sebaran Tingkat Alih Fungsi Lahan Sawah di Kabupaten Serang. *Jurnal Agrica*, 14(2), 171–182. <https://doi.org/10.31289/agrica.v14i2.5039>
- Hasibuan, R. A., Harahap, F. S., Adam, D. H., Hartati, S., dan Saragih, Y. (2025). Characteristics of Soil Chemical Properties and Soil Fertility in Land Types in Several Villages of North Rantau District, Labuhanbatu Regency. *Jurnal Agronomi Tanaman Tropika*, 7(1), 22–27. <https://doi.org/https://doi.org/10.36378/juatika.v7i1.3903> eissn
- He, D., Dong, Z., dan Zhu, B. (2025). Competitive Adsorption of Phytotoxic Exchangeable - Al^{3+} and Directed Enrichment of Microbial Community Introduced by Base Ion - Enriched Additive and Industrial by - Product Enhance Soil Fertility and Maize Yield. *Chem. Biol. Technol. Agric.*, 12(152), 1–18. <https://doi.org/https://doi.org/10.1186/s40538-025-00872-1>

- Hendrawan, J. B., Purwadi, dan Arifin, M. (2025). Perencanaan Pengelolaan Lahan Berdasar Laju Erosi pada Berbagai Penggunaan Lahan di Kecamatan Wonosalam Kabupaten Jombang. *Agrocentrum*, 3(1), 41–49.
- Herdiansyah, G., Arifin, M., Suriadikusumah, A., Maret, U. S., Resource, L., dan Padjadjaran, U. (2022). The Pedogenesis of Inceptisol on Southeast Toposequence of Mount Manglayang in West Java, Indonesia. *Indonesian Journal on Geoscience*, 9(2), 195–208. <https://doi.org/10.17014/ijog.9.2.195-208>
- Hilungka, E., Bachri, S., Kubangun, S. H., dan Baan, S. (2020). Karakteristik Sifat Fisik dan pH Tanah Pada Lahan Percobaan Manggoapi Fakultas Pertanian Universitas Papua Manokwari. *Jurnal Agrotek*, 8(2), 38–43. <https://doi.org/10.46549/agrotek.v8i2.200>
- Javed, A., Ali, E., Binte Afzal, K., Osman, A., dan Riaz, D. S. (2022). Soil Fertility: Factors Affecting Soil Fertility, and Biodiversity Responsible for Soil Fertility. *International Journal of Plant, Animal and Environmental Sciences*, 12(01), 21–33. <https://doi.org/10.26502/ijpaes.202129>
- Kabala, C., Mantel, S., Bednik-dudek, M., dan Matuszak, M. (2025). Geoderma Relationships Between Base Saturation , Effective Base Saturation and Soil pH as The References for the Development and Verification of Criteria for International Soil Classification. *Geoderma*, 461(June), 117465. <https://doi.org/10.1016/j.geoderma.2025.117465>
- Karnilawati, Sari, C. M., dan Musfirah. (2022). Perubahan Karakteristik Sifat Kimia Tanah pada Areal Pengembangan Penelitian Lahan Kering Gle Gapui. *Jurnal Sains Riset*, 12(1), 96–101. <http://journal.unigha.ac.id/index.php/JSR>
- Katili, H. A., Sariyani, dan Ongky. (2025). Spatial Distribution of Nutrients to Determine Soil Fertility in Mixed Farming Based on Geostatistical Kriging. *Journal of Degraded and Mining Lands Management*, 12(3), 7723–7738. <https://doi.org/10.15243/jdmlm.2025.123.7723>
- Kurniasih, R., Wibowo, A., dan Utami, S. N. H. (2018). Pengaruh Dosis Pupuk Urea Terhadap Kandungan N Tanah, Serapan N dan Hasil Umbi Bawang Merah pada Tanah Steril dan Tanah Inokulasi. *Jurnal Pertanian Presisi*, 01(01), 1–16. <http://www.ejournal.gunadarma.ac.id/index.php/jpp/article/view/1789>
- Kurniawan, S., Yusuf, R. M., Pujo, A., Reni, N., Istika, U., Auliya, G., Cahyo, N., dan Christopher, P. (2024). Soil Nitrogen Dynamics Affected by Coffee (coffea arabica) Canopy and Fertilizer Management in Coffee - Based Agroforestry. *Agroforestry Systems*, 98(6), 1323–1341. <https://doi.org/10.1007/s10457-024-01004-8>
- Kurniawati, Y. T., Febrianti, W. N., Wattie, G. G. R. ., Judhaswati, R. D., Handayani, W., Yuningsih, dan Maroeto. (2024). Evaluasi Kesesuaian Lahan untuk Pengembangan Tanaman Sengon di Wonosalam, Kecamatan Wonosalam. *Cakrawala*, 18(1), 51–58. <https://doi.org/https://doi.org/10.32781/cakrawala.v18i1.663>

- Langi, M. K. R., Pata'dungan, Y. S., dan Sartika, D. (2024). Evaluasi Sifat Kimia Tanah pada Lahan IrigasiPadi Sawah (*Oryza Sativa* L.) di Desa Ranteleda Kecamatan Palolo Kabupaten Sigi. *J. Agrotekbis*, 12(3), 601–608. <https://doi.org/10.22487/agrotekbis.v12i3.2138>
- Li, M., Han, X., dan Li, L. (2022). Total Nitrogen Stock in Soil Profile Affected by Land Use and Soil Type in Three Counties of Mollisols Soil Total Nitrogen Density Distribution at. *Frontiers in Environmental Science*, 10(June), 1–4. <https://doi.org/10.3389/fenvs.2022.945305>
- Liana, E., Idris, M. H., dan Aji, I. M. L. (2022). Karakteristik Sifat Fisika dan Kimia Tanah Berdasarkan Tipe Pengelolaan Lahan pada Hutan Produksi di Desa Banyu Urip Lombok Tengah. *Jurnal Hutan Tropika*, 17(1), 51–60. <https://doi.org/https://doi.org/10.36873/jht.v17i1.4189>
- Lisa, Basir, M., dan Hasanah, U. (2022). Status Hara Nitrogen , Fosfor , Kalium dan Tingkat Kesuburan Tanah pada Tiga Penggunaan Lahan Berbeda di Kecamatan Dolo Kabupaten Sigi Nutrient Status of Nitrogen , Phosphorus , Potassium Uses in Dolo District , Sigi Regency. *Mitra Sains*, 2, 23–32. <https://doi.org/10.22487/ms26866579.2022.v10.i1.pp.23-32>
- Lisdiyanti, M., Sarifuddin, dan Guchi, H. (2018). Pengaruh Pemberian Bahan Humat dan Pupuk SP-36 untuk Meningkatkan Ketersediaan Fosfor pada Tanah Ultisol. *Jurnal Pertanian Tropik*, 5(2), 192–198. <http://dx.doi.org/10.1016/j.gde.2016.09.008%0Ahttp://dx.doi.org/10.1007/s00412-015-0543-8%0Ahttp://dx.doi.org/10.1038/nature08473%0Ahttp://dx.doi.org/10.1016/j.jmb.2009.01.007%0Ahttp://dx.doi.org/10.1016/j.jmb.2012.10.008%0Ahttp://dx.doi.org/10.1038/s4159>
- Liu, R., Wang, Y., Hong, Y., Wang, F., Mao, X., dan Yi, J. (2023). Controlled-release urea application and optimized nitrogen applied strategy reduced nitrogen leaching and maintained grain yield of paddy fields in Northwest China. *Frontiers in Plant Science*, 14(January), 1–11. <https://doi.org/10.3389/fpls.2023.1033506>
- Liu, S., Yang, R., Peng, X., Hou, C., Ma, J., dan Guo, J. (2022). Contributions of Plant Litter Decomposition to Soil Nutrients in Ecological Tea Gardens. *Agriculture*, 12(957), 1–19. <https://doi.org/https://doi.org/10.3390/agriculture12070957>
- Lu, X. (2019). Fertilizer Types Affect Soil Organic Carbon Content and Crop Production: A Meta-analysis. *Agricultural Research*, 9(May), 94–101. <https://doi.org/10.1007/s40003-019-00410-0>
- Manfarizah, M., Karim, A., Basri, H., dan Muyassir, M. (2025). Case Studies in Chemical and Environmental Engineering Analysis of Land Characteristics and Erosion Impact on Gayo Arabica Coffee Production. *Case Studies in Chemical and Environmental Engineering*, 12(June), 101258. <https://doi.org/10.1016/j.cscee.2025.101258>

- Mangera, Y., Wahida, W., dan Yesnat, C. (2022). Evaluasi Kesesuaian Lahan Untuk Komoditi Padi, Jagung dan Bawang Merah pada Lahan Buka Baru di Kampung Bokem Distrik Merauke. *Agricola*, 12(1), 49–57. <https://doi.org/10.35724/ag.v12i1.4439>
- Mangkunegara, M., dan Firdamayanti, E. (2021). Evaluasi Kesesuaian Lahan dan Kelayakan Ekonomi Tanaman Lada (*Piper Nigrum L.*) di Kabupaten Luwu. *Wanatani*, 1(2), 55–62. <https://doi.org/10.51574/jip.v1i2.32>
- Maro'ah, S., Sunarminto, B. H., dan Utami, S. H. H. (2021). Status Kesuburan Tanah sebagai Dasar Strategi Pengelolaan Lahan Sawah di Kabupaten Bantul, Indonesia. *AgriHealth*, 2(2), 78–87. <https://doi.org/http://dx.doi.org/10.20961/agrihealth.v2i2.54957>
- Marzouk, S. H., Tindwa, H. J., dan Amuri, N. A. (2024). Enhancing phosphorus use efficiency and soil quality indicators in lowland paddy ecosystem through Azolla, rice straw, and NPKS fertilizers. *Frontiers in Agronomy*, 6(April), 1–18. <https://doi.org/10.3389/fagro.2024.1376110>
- Marzouk, S. H., Tindwa, H. J., Massawe, B. H. J., Amuri, N. A., dan Semoka, J. M. (2023). Pedological Characterization and Soil Fertility Assessment of The Selected Rice Irrigation Schemes, Tanzania. *Frontiers in Soil Science*, 3, 1–14. <https://doi.org/10.3389/fsoil.2023.1171849>
- Maulana, H., Hermita, N., Fatmawaty, A. A., dan Firnia, D. (2024). Analisa dan Pemetaan Nilai C-Organik, Bahan Organik, dan Tekstur Tanah di Lahan Tumbuh Talas Beneng (*Xanthosoma undipes*) Berdasarkan Ketinggian. *Agrium*, 27(2), 166–178. <https://doi.org/https://doi.org/10.30596/agrium.v27i2.21261>
- Meena, S., Manjaiah, K. M., Sharma, V. K., Purakayastha, T. J., Das, S., Bana, R. S., Gawdiya, S., Yadav, S., Saini, R., Kumar, A., El-Hendawy, S., Mattar, M. A., dan Salem, A. (2025). Exploring Soil Organic Carbon Fractions, Stocks, and Carbon Management Index Across Land Uses in Subtropical Ecosystems of Tripura, India. *Frontiers in Sustainable Food Systems*, 9(August), 1–15. <https://doi.org/10.3389/fsufs.2025.1604101>
- Munnaf, M. A., dan Mouazen, A. M. (2021). Development of a Soil Fertility Index Using on-line Vis-NIR Spectroscopy. *Computers and Electronics in Agriculture*, 188, 106341. <https://doi.org/10.1016/j.compag.2021.106341>
- Mutiasari, F., Santi, F., dan Ifadah, N. F. (2023). Bahan Organik Dalam Lubang Resapan Biopori (LRB) untuk Meningkatkan Ketersediaan Kalium Subsoil di Kebun Kopi. *Agroinotek*, 004(02), 76–86. <https://doi.org/http://dx.doi.org/10.21776/ub.agroinotek.2023.004.02.03>
- Nganji, M. U., dan Sudarma, I. M. A. (2023). Analisis Status Kesuburan Tanah pada Lahan Budidaya Rumput Odot (*Pennisetum purpureum* CV. MOOT) dengan Perlakuan Pupuk Bokashi Sludge Biogas Berbeda. *Jurnal Tanah Dan Sumberdaya Lahan*, 10(2), 223–229. <https://doi.org/10.21776/ub.jtsl.2023.010.2.5>

- Ning, Q., Chen, L., Jia, Z., Zhang, C., Ma, D., Li, F., Zhang, J., Li, D., Han, X., Cai, Z., Huang, S., Liu, W., Zhu, B., dan Li, Y. (2020). Multiple Long-term Observations Reveal a Strategy for Soil pH-dependent Fertilization and Fungal Communities in Support of Agricultural Production. *Agriculture, Ecosystems and Environment*, 293(January), 1–10. <https://doi.org/10.1016/j.agee.2020.106837>
- Nopsagiarti, T., Saputri, M. A., dan Refiani, T. P. (2025). Analisis pH, C-organik, N-total dan Rasio C/N Tanah Lahan Perkebunan Kelapa Sawit di Desa Logas Kabupaten Kuantan Singingi. *Jurnal Agro Indragiri*, 10(2), 21–26. <https://doi.org/https://doi.org/10.32520/jai.v4i1>
- Nurmi, dan Azis, A. (2023). Pemanfaatan Pupuk Organik untuk Meningkatkan Kesuburan Tanah pada Pertanaman Kacang Tanah. *Jurnal Pengabdian Masyarakat Teknologi Pertanian*, 2(2), 166–171.
- Ou, Y., Quimomez-Barraza, G., dan Wang, C. (2023). Effects of Land-Use Types on Topsoil Physicochemical Properties in a Tropical Coastal Ecologically Fragile Zone of Sustainability, 15, 1–14. <https://doi.org/https://doi.org/10.3390/su15065484>
- Parjono, Mekiuw, Y., dan Wahi, K. (2022). Evaluasi pH dan Alumunium (Al) dalam Tanah di Kampung Erambu Distrik Sota Kabuparen Merauke. *Maef-J*, 4(2), 77–82.
- Prabowo, R., dan Subantoro, R. (2017). Analisis Tanah Sebagai Indikator Tingkat Kesuburan Lahan Budidaya Pertanian di Kota Semarang. *Jurnal Ilmiah Cendekia Eksakta*, 2(2), 59–64.
- Pratamaningsih, M. M., Hati, D. P., Susanto, B., Solihin, M. A., Yatno, E., Susanti, W. I., dan Hikmat, M. (2025). Journal of Soil Science and Agroclimatology Relationship model of land biophysical properties and their influence on Arabica coffee production in Bandung Regency , Indonesia by using the PCR method. *Journal of Soil Science and Agroclimatology*, 22(2), 211–222. <https://doi.org/https://doi.org/10.20961/stjssa.v22i2.93206>
- Puja, I. N., Wayan, D. A. N. I., dan Atmaja, D. (2018). Kajian Status Kesuburan Tanah untuk Menentukan Pemupukan Spesifik Lokasi Tanaman Padi. *Agrotrop*, 8(1), 1–10.
- Purba, I. T., Hapsani, A., dan Basri, H. (2025). Dinamika Karbon Organik, Respirasi, dan Kelembapan Tanah pada Perbedaan Penutup Tanah dan Pupuk Organik Cair di Perkebunan Rakyat. *Jurnal Agro Industri Perekebunan*, 13(3), 195–204. <https://doi.org/10.25181/jaip.v13i3.4103>
- Quispe, K., Hermoza, N., Mejia, S., Romero-chavez, L. E., Ottos, E., Arce, A., dan Acosta, R. S. (2025). Spatial Analysis of Soil Acidity and Available Phosphorus in Coffee-Growing Areas of Pichanaqui : Implications for Liming and Site-Specific Fertilization. *Agriculture*, 15(1632), 1–28. <https://doi.org/https://doi.org/10.3390/agriculture15151632>
- Rahmadani, A. D., Wahyudi, I., dan Rois. (2020). Status Unsur Hara Nitrogen Tanah pada Tiga Penggunaan Lahan di Desa Lolu Kabupaten Sigi. *E-J. Agrotekbis*, 8(1), 32–37.

- Rahmawan, S. I., Arifin, Z., dan Sulistyawati. (2019). Pengaruh Pemupukan Kalium (K) Terhadap Pertumbuhan dan Hasil Kubis (*Brassica oleraceae* var. capitata, L.). *Jurnal Agroteknologi Merdeka Pasuruan*, 3(1), 17–23.
- Rahmayanti, R., Pata'dungan, Y. S., dan Amelia, R. (2021). Analisis Kadar Hara Makro Tanah pada Pertanian Lahan Kering di Desa Makmur Kecamatan Palolo Kabupaten Sigi. *Agrotekbis*, 9(4), 866–876. <http://jurnal.faperta.untad.ac.id/index.php/agrotekbis/article/view/1026>
- Ramlan, dan Ayuningsi, L. S. (2022). Pengaruh Pemberian Pupuk Bokashi Kotoran Sapi Terhadap Kesuburan Tanah pada Tanaman Jahe Merah (*Zingiber officinale* Rosc) di Kecamatan Tinombo Kabupaten Parigi Mountong. *Agrotekbis*, 10(3), 256–269.
- Risma, S., Maryam, dan A.Yusamah, R. (2023). Penentuan C-organik pada Tanah untuk Meningkatkan Produktivitas Tanaman dan Berkelanjutan umur Tanaman dengan Metoda Spektrofotometri UV VIS. *Jurnal Teknologi Pertanian*, 12(1), 11–19.
- Romadhon, M. R., dan Hermiyanto, B. (2021). Determination of Soil Fertility Index in Dinoyo Sub Watershed , Jember Regency. *Jurnal Tanah Dan Iklim*, 45(1), 27–37. <http://dx.doi.org/10.21082/jti.v45n1.2021.27.37>
- Rosawanti, P. (2019). Kandungan Unsur Hara pada Pupuk Organik Tumbuhan Air Lokal. *Daun: Jurnal Ilmiah Pertanian Dan Kehutanan*, 6(2), 140–148.
- Safira, D. A., dan Rusdiana, O. (2025). Variasi Tekstur Tanah dan Bahan Organik Berdasarkan Kerapatan Tajuk Studi Kasus pada Hutan Kota Muhammad Sabki, Kota Jambi. *Jurnal Silva Tropika*, 9(1), 32–43.
- Sahfiitra, A. A. (2023). Variasi Kapasitas Tukar Kation (KTK) dan Kejenuhan Basa (KB) pada Tanah Hemic Haplosaprist yang dipengaruhi Oleh Pasang Surut di Pelalawan Riau. *Biofarm: Jurnal Ilmiah Pertanian*, 19(1), 103. <https://doi.org/10.31941/biofarm.v19i1.3003>
- Salsabilla, D. F., Setyo Sasongko, A., dan Dwi Cahyadi, F. (2023). Analisis Kandungan Nitrat, Nitrit, Dan Ortofosfat Di Perairan Pulau Merak Kecil. *Jurnal Laot Ilmu Kelautan*, 5(2), 152–161. <https://doi.org/10.35308/jlik.v5i2.8092>
- Sánchez-Navarro, A., Salas-sanjuan, M. del C., Blanco-Bernardeau, M. A., Sánchez-Romero, J. A., dan Delgado-Iniesta, M. J. (2023). Medium-Term Effect of Organic Amendments on the Chemical Properties of a Soil Used for Vegetable Cultivation with Cereal and Legume Rotation in a Semiarid Climate. *Land*, 12(4), 1–17. <https://doi.org/https://doi.org/10.3390/land12040897>
- Sarah, S., AB, B., dan Bustan. (2024). Sebara Nilai Kapasitas Tukar Kation (KTK) dan Kemasaman (pH) Tanah di Tanah Vertisol Kecamatan Sakra Kabupaten Lombok Timur. *Journal of Soil Quality and Management*, 3(1), 1–6. <https://doi.org/10.29303/jsqm.v3i1.145>

- Sari, A. N., Muliana, Yusra, Khusrizal, dan Akbar, H. (2022). Evaluasi Status Kesuburan Tanah di Kecamatan Nisam Kabupaten Aceh Utara. *Jurnal Ilmiah Mahasiswa Agroekoteknologi*, 1(2), 49–57.
- Sariani, dan Ladonu, M. I. (2025). Identifikasi Kesuburan Tanah pada Penggunaan Lahan Berbeda di Kecamatan Tinangkung Selatan Kabupaten Banggai Kepulauan. *Jurnal Agrikultura*, 36(2), 321–331. <https://doi.org/10.24198/agrikultura.v36i2.63034>
- Sasongko, P. E., Purwanto, Dewi, W. S., dan 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(1), 3787–3794. <https://doi.org/10.15243/jdmlm.2022.101.3787>
- Sefano, M. A., dan Hakim, L. (2024). Perbaikan Sifat Kimia Tanah Bekas Tambang Batu Kapur dengan Pemberian Kompos Kotoran Sapi di PT Semen Padang. *Journal of TOP Agriculture*, 2(2), 80–86. <https://doi.org/10.56854/jta.v2i2.154>
- Sihaloho, N. K., Malolikosa, K. S., dan Munthe, A. W. (2023). Identifikasi Sifat Kimia Tanah pada Tanaman Jeruk (*Citrus* sp.) Kecamatan Tigapanah Kabupaten Karo. *Jurnal Agroteknosains*, 7(1), 68–76.
- Silva, S., Carvalho, M., Teixeira, M., Jalal, A., Alves, R. S., Eliane, R., Abreu-junior, C. H., Jani, A. D., Capra, G. F., Assis, T., dan Nogueira, R. (2024). Treating Tropical Soils with Composted Sewage Sludge Reduces the Mineral Fertilizer Requirements in Sugarcane Production. *Land*, 13, 1–18. <https://doi.org/10.3390/land13111820>
- Simanjuntak, D. S., dan Hendrawan, B. (2022). Analisis Karakteristik Sifat Kimia Tanah pada Perkebunan Kelapa Sawit Unit Pabatu Serdang Bedagai. *Jurnal Penelitian*, 2(2), 549–553. <https://j-las.lemkomindo.org/index.php/AFoSJ-LAS/index>
- Siregar, P., Fauzi, dan Suproadi. (2017). Pengaruh Pemberian Beberapa Sumber Bahan Organik dan Masa Inkubasi Terhadap Beberapa Aspek Kimia Kesuburan Tanah Ultisol. *Jurnal Agroekoteknologi Universitas Sumatera Utara*, 5(2), 256–264.
- Soekamto, M. H., Zainuddin, O., dan Kondologit, S. F. (2023). Evaluasi Status Kesuburan Tanah pada Lahan Budidaya Tanaman Cabai (*Capsicum Annum* L.) di Kelurahan Aimas Kabupaten Sorong. *Agrologia*, 12(2), 141–148. <https://doi.org/http://dx.doi.org/10.30598/ajibt.v12i2>
- Sondari, N., Amalia, L., Turmuktini, T., Candra, L. P., Nurlukman, P., Ulfah, I., dan Samsu, A. (2025). Mapping of Posphorus , Potassium, and C-organic Nutrient Status of Dry Land Using Dry Soil Testing Equipment (PUTK) in Pamulihan Dystrict Sumedang Regency. *Journal of Agricultural Sciences*, 2(5), 257–274. <https://doi.org/10.62885/agrosci.v2i5.684>

- Song, H., Shi, J., Wang, R., Jin, T., dan Peng, Y. (2025). Interaction of Soil pH, Organic Matter, Exchangeable Acidity, and Cation Exchange Capacity in a Managed Tea Farm. *PeerJ*, 13, 1–21. <https://doi.org/http://doi.org/10.7717/peerj.20341>
- Suanda, R., Walida, H., Rizal, K., dan Sitanggang, K. D. (2022). Analisis Karakteristik Sifat Kimia Tanah Gambut Setelah Diinkubasi dengan Kascing dari Campuran Kotoran Ayam, Bonggol Pisang dan Ampas Tahu. *Ziraa'Ah Majalah Ilmiah Pertanian*, 47(2), 162. <https://doi.org/10.31602/zmip.v47i2.6734>
- Suarji, M. A., Napoleon, A., Santoso, J., dan Bolan, N. (2023). Cadmium in Paddy Soil and Rice Crop in Indonesian Intensive Farming System. *Journal of Smart Agriculture and Environmental Technology*, 1(2), 59–65. <https://doi.org/http://doi.org/10.34564/josaet>
- Suhartini. (2020). *Kandungan Nitrogen Dan Fosfor Pupuk Organik Cair Dari Limbah Daun-Daunan dan Urine Kambing dengan Penambahan Bioaktiator Ragi Tape*.
- Sun, H., Wang, P., Xing, Y., Zhang, D., dan Li, S. (2024). Investigating Soil Water Retention and Water Content in Retrogressive Thaw Slumps in the Qinghai-Tibet Plateau, China. *Water*, 16(571), 2–19. <https://doi.org/https://doi.org/10.3390/w16040571>
- Suntoro, S., Herdiansyah, G., dan Mujiyo, M. (2024). Nutrient Status and Soil Fertility Index as a Basis for Sustainable Rice Field Management in Madiun Regency, Indonesia. *Journal of Soil Science and Agroclimatology*, 21(1), 22–31. <https://doi.org/https://doi.org/10.20961/stjssa.v21i1.73845>
- Suryani, I., Astuti, J., dan Muchlisah, N. (2022). Kajian Sifat Fisika Kimia Tanah Inceptisol di Berbagai Kelerengan dan Kedalaman Tanah pada Areal Pertanaman Kakao. *Jurnal Galung Tropika*, 11(3), 275–282. <https://doi.org/https://doi.org/10.31850/jgt.v11i3.1014>
- Tando, E. (2019). Upaya Efisiensi dan Peningkatan Ketersediaan Nitrogen dalam Tanah serta Serapan Nitrogen pada Tanaman Padi Sawah (*Oryza sativa* L.). *Buana Sains*, 18(2), 171. <https://doi.org/10.33366/bs.v18i2.1190>
- Taufiqurrohman, H., dan Dewi, S. K. (2024). Efektivitas Pupuk Organik Cair Berbahan Dasar Ampas Tebu dan Air Cucian Beras terhadap Tanaman Bayam Hijau (*Amaranthus hybridus* L.). *LenteraBio : Berkala Ilmiah Biologi*, 13(1), 184–190. <https://doi.org/10.26740/lenterabio.v13n1.p184-190>
- Teul, M. U., Killa, Y. M., dan Ndapamuri, M. H. (2024). Pengaruh Beberapa Tipe Penggunaan Lahan Wula Waijelu Kabupaten Sumba Timur. *Jurnal Agro Indragiri*, 10(1), 41–46. <https://doi.org/https://doi.org/10.32520/jai.v4i1>
- Tiecher, T., Fontoura, S. M. V., Ambrosini, V. G., Araújo, E. A., Alves, L. A., dan Gatiboni, L. C. (2023). Soil Phosphorus Forms and Fertilizer Use Efficiency are Affected by Tillage and Soil Acidity Management. *Geoderma*, 435(July 2022), 1–15. <https://doi.org/10.1016/j.geoderma.2023.116495>

- Tomczyk, P., Wdowczyk, A., Wiatkowska, B., Szymańska-Pulikowska, A., dan Kuriqi, A. (2024). Fertility and Quality of Arable Soils in Poland: Spatial–Temporal Analysis of Long-term Monitoring. *Ecological Indicators*, 166, 1–18. <https://doi.org/10.1016/j.ecolind.2024.112375>
- Trigunasih, N. M., Narka, I. W., dan Saifulloh, M. (2023). Measurement of Soil Chemical Properties for Mapping Soil Fertility Status. *International Journal of Design dan Nature and Ecodynamics*, 18(6), 1381–1390. <https://doi.org/https://doi.org/10.18280/ij dne.180611>
- Trisnawati, A., Beja, H. D., dan Jeksen, J. (2022). Analisis Status Kesuburan Tanah pada Kebun Petani Desa Ladogahar Kecamatan Nita Kabupaten Sikka. *Journal Locus Penelitian Dan Pengabdian*, 1(2), 68–80. <https://doi.org/10.36418/locus.v1i2.11>
- Wang, C., Thielemann, L., Dippold, M. A., Guggenberger, G., Kuzyakov, Y., Banfield, C. C., Ge, T., Guenther, S., Bork, P., Horn, M. A., dan Dorodnikov, M. (2022). Can the Reductive Dissolution of Ferric Iron in Paddy Soils Compensate Phosphorus Limitation of Rice Plants and Microorganisms? *Soil Biology and Biochemistry*, 168(March), 108653. <https://doi.org/10.1016/j.soilbio.2022.108653>
- Wang, P., Lakshmanan, P., Zhu, Q., dan Zhang, S. (2025). Universal Models for Comprehensive Prediction of Soil Quality Responses to Complex Amendments in Acidic Soil. *Geoderma*, 461(September), 117495. <https://doi.org/10.1016/j.geoderma.2025.117495>
- Wang, X., Li, Y., Duan, Y., Wang, L., Niu, Y., dan Li, X. (2021). Spatial Variability of Soil Organic Carbon and Total Nitrogen in Desert Steppes of China ' s Hexi Corridor. *Frontiers in Environmental Science*, 9(October), 1–14. <https://doi.org/10.3389/fenvs.2021.761313>
- Wati, K. R., Hazriani, R., dan Manurung, R. (2024). Kajian Status Kesuburan Tanah pada Lahan Persawahan di Desa Pak Bulu Kecamatan Anjongan Kabupaten Mempawah. *Jurnal Sains Pertanian Equator*, 13(3), 992–998. <https://doi.org/http://dx.doi.org/10.26418/jspe.v13i3.81239>
- Wen, S., Jiao, Y., Yang, J., Zhu, J., dan Tian, X. (2024). Enhancing Soil Aggregation and Organic Carbon Retention in Greenhouse Vegetable Production through Reductive Soil Disinfestation with Straw and Fertiliser : A Comprehensive Study. *Agronomy*, 14(179), 1–18. <https://doi.org/10.3390/agronomy14010179>
- Wicaksono, M. F. Z., dan Antony, D. (2024). Evaluasi Status Hara Makro Primer Tanah Gambut di Areal Pengembangan Tanaman Kopi Liberika (Coffea Liberica) di Desa Jati Mulyo Kabupaten Tanjung Jabung Timur. *Syntax Liberate*, 8(4), 1–14.
- Wulansari, R., Pranoto, E., dan Saragih, J. (2022). Karakteristik Sifat Fisik Andisols Typic Melanudands pada Beberapa Kemiringan Lereng di Perkebunan Teh Gambung, Jawa Barat. *Jurnal Pengelolaan Perkebunan*, 3(1), 17–24. <http://dx.doi.org/10.54387/jpp.v3i1.11>

- Yang, C., Sainju, U. M., Li, C., Fu, X., Zhao, F., dan Wang, J. (2023). Long-Term Chemical and Organic Fertilization Differently Affect Soil Aggregates and Associated Carbon and Nitrogen in the Loess Plateau of China. *Agronomy*, 13(1466), 1–16. <https://doi.org/https://doi.org/10.3390/agronomy13061466>
- Yang, M., Mouazen, A., Zhao, X., dan Guo, X. (2020). Assessment of a Soil Fertility Index Using Visible and Near- Infrared Spectroscopy in The Rice Paddy Region of Southern China. *Science of The Total Environment*, 651(2), 615–626. <https://doi.org/10.1111/ejss.12907>
- Yanti, I., dan Kusuma, Y. R. (2022). Pengaruh Kadar Air dalam Tanah Terhadap Kadar C-Organik dan Keasaman (pH) Tanah. *Indonesian Journal of Chemical Research*, 6(2), 92–97. <https://doi.org/10.20885/ijcr.vol6.iss2.art5>
- Ye, C., Zheng, G., Tao, Y., Xu, Y., Chu, G., Xu, C., Chen, S., Liu, Y., dan Zhang, X. (2024). Effect of Soil Texture on Soil Nutrient Status and Rice Nutrient Absorption in Paddy Soils. *Agronomy*, 14(1339), 1–18. <https://doi.org/10.3390/agronomy14061339>
- Yi, C., Zhu, J., Chen, L., Huang, X., Wu, R., Zhang, H., Dai, X., dan Liang, J. (2023). Speciation of Iron and Aluminum in Relation to Phosphorus Sorption and Supply Characteristics of Soil Aggregates in Subtropical Forests. *Forest*, 14(1804), 1–16. <https://doi.org/10.3390/f14091804>
- Zakiyah, Z. N., Rahmawati, C., dan Fatimah, I. (2019). Analysis Of Phosphorus and Potassium Levels in Organic Fertilizer in The Integrated Laboratory of Jombang District Agriculture Office. *Indonesian Journal of Chemical Research*, 3(2), 38–48. <https://doi.org/10.20885/ijcr.vol3.iss2.art1>
- Zhao, W., Li, J., Jiang, J., Lu, H., Hong, Z., Qian, W., Xu, R., Deng, K., dan Guan, P. (2020). The Mechanisms Underlying the Reduction in Aluminum Toxicity and Improvements in the Yield of Sweet Potato (*Ipomoea batatas* L.) After Organic and Inorganic Amendment of an Acidic Ultisol. *Agriculture, Ecosystems and Environment*, 288(February 2019), 106716. <https://doi.org/10.1016/j.agee.2019.106716>
- Zhao, Y., Chen, Y., Dai, H., Cui, J., Wang, L., dan Sui, P. (2021). Effects of Organic Amendments on the Improvement of Soil Nutrients and Crop Yield in Sandy Soils during a 4-Year Field. *Agronomy*, 11, 1–15. <https://doi.org/10.3390/agronomy11010157>
- Zulfikri, Z., Pata'dungan, Y. S., dan Sartika, D. (2023). Analisis Beberapa Unsur Kimia Tanah pada Lahan Kelapa Sawit di Desa Pandauke Morowali Utara. *Agrotekbis : E-Jurnal Ilmu Pertanian*, 11(3), 635–644. <https://doi.org/10.22487/agrotekbis.v11i3.1735>