

BIBLIOGRAPHY

- Aghalari, F., Chavoshi, E., & Borujeni, S. C. (2023). Indexing and segment-level mapping of soil quality in a spatially complex watershed in northern Iran. *Environmental Monitoring and Assessment*, 196(1), 51.
- Akbar, M. R., Kadir, S., Forestry, P. S., Forestry, F., & Lambung, U. (2024). Level of Land Criticality in the Amparo Kecil Sub-Watershed of Tabunio Regency The Level of Land Criticality in the Amparo Kecil Sub-Watershed of Tabunio Watershed, Tanah Laut Regency Muhammad Rizal Akbar, Syarifuddin Kadir, and Badaruddin Study Program. *Sylva Scientiae Journal*, 07(3), 475–485.
- Al Khaafidh, E. M., Astuti, F., Anggun, A., Apriliani, J., & Marini, M. (2022). The cultivation of cayenne pepper plants is polybaged. *Scientific Journal of Real Work Lecture Students (Jimakukerta)*, 2(3), 630–636.
- Anisa Saputri, N., Rini Indrayatie, E., & Ahmad Jauhari Forestry Study Program, and. (2024). Analysis Level of Land Criticality The Catchment Area in the Riam Kanan Sub-Sub Watershed. *Sylva Scientiae Journal*, 07(1), 65–73.
- Anjani, N. R., Roelianto, M., & Mooduto, L. (2021). Osteoinduction Ability Of Human Adiposed Derived Mesenchymal Stem Cell (HADMSC) with Chitosan Scaffold Combination Towards Blood Serum Phosphorus Levels. *Journal of SCRTE*, 5, 2.
- Ar-Rozi, A. M., & Saptana. (2021). Avocado fruit supply chain management in West Java. *IOP Conference Series: Earth and Environmental Science*, 892(1).
- Ashardiono, F., & Trihartono, A. (2024). Optimizing the potential of Indonesian coffee: a dual market approach. *Cogent Social Sciences*, 10(1).
- Atyumaini, Aflizar, & Susila, E. (2023). *The relationship of several soil chemistry and physics to land suitability and corn production*. 22(2).
- Babar, S., Baloch, A., Qasim, M., Wang, J., & Wang, X. (2024). Unearthing the soil-bacteria nexus to enhance potassium bioavailability for global sustainable agriculture : A mechanistic preview. *Microbiological Research*, 288(April),
- Barrow, N. ., & Hartemink, A. E. (2023). The effects of pH on nutrient availability depend on both soils and plants. *Plant and Soil*, 21–37.
- Bilas, G., Karapetsas, N., Gobin, A., Mesdanitis, K., Toth, G., Wang, Y., Luo, L., Koutsos, T. M., Moshou, D., & Alexandridis, T. K. (2022). *Land Suitability Analysis as a Tool for Evaluating Soil-Improving Cropping Systems*.
- Briassoulis, H. (2025). Land Use Planning for Land Degradation Neutrality: Reflections and Critical Challenges. *Land Degradation and Development*.
- Chairuddin, Z., & Abdullah, N. (2023). Scalogram Analysis: A Case Study of Mamasa Coffee Development Based on Land Suitability and Supporting Facilities in Mamasa Regency. *Journal of Ecosolum*, 12(1), 86–104.
- Chamberlain, L. A., Aguayo, T., Zerega, N. J. C., Dybzinski, R., & Egerton-Warburton, L. M. (2022). Rapid improvement in soil health following the

- conversion of abandoned farm fields to annual or perennial agroecosystems. *Frontiers in Sustainable Food Systems*, 6.
- Choudhary, K., Boori, M. S., Shi, W., Valiev, A., & Kupriyanov, A. (2023). Agricultural land suitability assessment for sustainable development using remote sensing techniques with analytic hierarchy process. *Remote Sensing Applications: Society and Environment*, 32, 101051.
- Cui, J., Zhu, R., Wang, X., Xu, X., Ai, C., He, P., Liang, G., Zhou, W., & Zhu, P. (2022). Effect of high soil C/N ratio and nitrogen limitation caused by the long-term combined organic-inorganic fertilization on the soil microbial community structure and its dominated SOC decomposition. *Journal of Environmental Management*, 303, 114155.
- Çullu, M., Bilgili, A., AYDEMİR, A., ÖZTÜRKMEN, A., Almaca, A., & DİKİLİTAŞ, S. (2022). A GIS Based Land Suitability and Gross Value Evaluation of Mined Lands in Şanlıurfa District. *Journal of Agricultural Sciences*, 28, 1–7.
- Danniswari, D., Aini, Q., Fitri, R., & Fauzi, R. (2024). *Assessing the Potential Utilization of Land as a Productive Landscape based on Land Suitability Analysis*. 22(2), 81–91.
- de Mendonça, G. C., da Costa, L. M., Abdo, M. T. V. N., Costa, R. C. A., Parras, R., de Oliveira, L. C. M., Pissarra, T. C. T., & Pacheco, F. A. L. (2023). Multicriteria spatial model to prioritize degraded areas for landscape restoration through agroforestry. *MethodsX*, 10(February).
- Demircan, B., & Velioğlu, Y. S. (2021). Avocado: Composition and Effects on Health. *Akademik Gıda*, 19(3), 309–324.
- Destiwarni, Sari, K. T., Astarina, R., & Umar. (2021). *Lowland cabbage cultivation technology*. Agricultural Technology Assessment Center (BPTP) of Riau IAARD, Agricultural Research and Development Agency, Ministry of Agriculture.
- Erwinda, E., Muslim, R. Q., Pratamaningsih, M. M., & Hati, D. P. (2025). *The Linkage of Soil pH , Phosphorus Availability , and Exchangeable Aluminum in Andisol and Recommendations for Soil Improvement*. 30(3), 464–472.
- Fadhilla, S., Kusumandari, A., Senawi, Lubis, Y. S., Siregar, A. W., & Hakim, L. (2022). Land capability analysis using LCLP software in cangkran micro watershed model. *IOP Conference Series: Earth and Environmental Science*, 1115(1).
- Fadila, I., Khairullah, & Manfarizah. (2022). *Analysis of Soil Aggregate Stability Index in Several Slope and Land Use Classes in Bukit District, Bener Meriah Regency* (. 7, 705–711.
- Fadlu, M. (2021). *Soil Characteristics in Several Land Uses in the Hulu Das Wadu Kajuji Area, Dompu Regency*. Universitas_Muhammadiyah_Mataram.
- Fakhrurrozi, M. A., Dr. Ir. Abdul Wahid Hasyim, M. S. P., & Dian Dinanti, S. T. .

- M. T. (2024). *Residents' Preferences for the Selection of Residential Locations in Pacet District, Mojokerto Regency*. 13(341), 153–162.
- Fauzi, E. P. (2019). Coffee shops and art communities as a form of modern public space. *Journal of Journalism*, 5(1), 16–30.
- Fiantis, D., Rudiyanto, Ginting, F. I., Utami, S. R., Sukarman, Anda, M., Jeon, S. H., & Minasny, B. (2022). Sustaining the productivity and ecosystem services of soils in Indonesia. *Geoderma Regional*, 28, e00488.
- Fitriningtyas, A. N., Sutarno, S., & Fuskhah, E. (2019). Application of several types of liquid organic fertilizers to the growth and production of cayenne pepper (*Capsicum frutescens* L.). *Journal of Agro Complex*, 3(1), 32.
- Ghosh, S., Mondal, G., & Chakraborty, S. (2025). *Geogenic perspectives on potassium dynamics and plant uptake : insights from natural and submerged conditions across different soil types with machine learning predictions*. January, 1–10.
- Gunawan, E. (2022). *Potential Production of Cabbage Plant (Barassica oleracea L) in the Highlands of Bonto Marannu Village, Ulu Ere District, Bantaen Regency*. Bosowa University.
- Haliza Maharani, A. (2024). Coffee shop trend among teenage consumers behaving FOMO in Pulo Gebang Village. *Journal of Tourism and Hospitality Management*, 2(3), 77–96.
- Hardjowigeno, S., & Widiatmaka. (2020). *Evaluation of land security & land management planning*. Gadjah Mada University Press.
- Hartati, S., Yunus, A., Nandariyah, N., Yuniastuti, E., Pujiasmanto, B., Purwanto, E., Samanhudi, S., Sulandjari, S., Ratriyanto, A., Prastowo, S., Manurung, I. R., Suryanti, V., Susilowati, A., Artanti, A. N., Mulyani, S., & Dirgahayu, P. (2022). Diversify yard plants with avocado plants to improve family nutrition. *SEMAR (Journal of Science, Technology, and Art for Society)*, 11(2), 161.
- Hartoyo, Adisti Permatasari Putri, Madani, H. N., Muhammad, D. N., Hasanah, A., Ghalib, A., & Alifioni, K. (2024). Rehabilitation of Critical Land through the Implementation of Four-Dimensional Agroforestry in Tenjolaya, Bogor, West Java Rehabilitation of Critical Land through Implementation of Four-Dimensional. *Journal of Tropical Silviculture*, 15(01), 51–56.
- He, C., Zhang, J., Liu, Z., & Huang, Q. (2022). Characteristics and progress of land use/cover change research during 1990–2018. *Journal of Geographical Sciences*, 32(3), 537–559.
- Holz, M., & Augustin, J. (2021). Erosion effects on soil carbon and nitrogen dynamics on cultivated slopes: A meta-analysis. *Geoderma*, 397, 115045.
- Imtiaz, H., Mir, A. R., Corpas, F. J., & Hayat, S. (2023). Impact of potassium starvation on the uptake, transportation, photosynthesis, and abiotic stress tolerance. *Plant Growth Regulation*, 99(3), 429–448.
- Indrajaya, Y., Yuwati, T. W., Lestari, S., Winarno, B., Narendra, B. H., Nugroho,

- H. Y. S. H., Rachmanadi, D., Pratiwi, P., Turjaman, M. H., Adi, R. N., Savitri, E., Putra, P. B., Santosa, P. B., Nugroho, N. P., Cahyono, S. A., Wahyuningtyas, R. S., Prayudyaningsih, R., Halwany, W., Siarudin, M., ... Mendham, D. (2022). Tropical Forest Landscape Restoration in Indonesia: A Review. In *Land* (Vol. 11, Issue 3).
- Ishaq, I., Priani, R. A., Azis, A., Hamdani, K. K., Nurawan, A., Haryati, Y., Dianawati, M., & Susanto, H. (2023). Local Morphological Variety of Avocado: West Java, Indonesia. *IOP Conference Series: Earth and Environmental Science*, 1246(1).
- Izzah, L., Rochwulaningsih, Y., Krisnadi, I., Hartanto, D. A., & Sampurna, I. C. (2023). Historical Review of Smallholder Coffee Farmers Population in Kayumas Village, Situbondo Regency. *Indonesian Historical Studies*, 7(1), 36–46.
- Izzah, L., Rochwulaningsih, Y., Nurdiansyah, Y., Suharto, & Krisnadi, I. G. (2022). Gold Green: A Survival Strategy of Farmers in Kayumas Village, Situbondo Regency. *E3S Web of Conferences*, 359, 1–11.
- Jahan, N., Mahmud, U., & Khan, Z. (2025). Sustainable plant - soil phosphorus management in agricultural systems : challenges , environmental impacts and innovative solutions. *Discover Soil*.
- Jinger, D., Kaushal, R., Kumar, R., Paramesh, V., Verma, A., Shukla, M., Chavan, S. B., Kakade, V., Dobhal, S., Uthappa, A. R., Roy, T., Singhal, V., Madegowda, M., Kumar, D., Khatri, P., Dinesh, D., Singh, G., Singh, A. K., Nath, A. J., ... Kumawat, S. (2023). Degraded land rehabilitation through agroforestry in India: Achievements, current understanding, and future prospectives. *Frontiers in Ecology and Evolution*, 11(February).
- Kapuangan, W., & Thaha, A. R. (2023). The Influence of Topographic on Several Soil Chemical Properties in Folk Arabica Coffee Plantations in Sanik Village, Malimbong-Balepe' District, Tana Toraja Regency. *Agrotechnics: E-Journal of Agricultural Sciences*, 11(5), 1289–1296.
- Ministry of Environment and Forestry. (2022). *National Critical Land Map*.
- Li, X., Xiao, P., Hao, S., & Wang, Z. (2024). Rainfall Erosivity Characteristics during 1961–2100 in the Loess Plateau, China. *Remote Sensing*, 16(4).
- Lili, S. (2022). *Analysis of Land Use Transfer and Prediction Using the Markov Chain Method in Bungo Regency*. 3(2), 1–23.
- Lopez, G., Ahmadi, S. H., Amelung, W., Athmann, M., Ewert, F., Gaiser, T., Gocke, M. I., Kautz, T., Postma, J., Stoschus, A., Watt, M., Yu, P., & Seidel, S. J. (2023). *Nutrient de fi ciency effects on root architecture and root-to-shoot ratio in arable crops*. January, 1–18.
- Mangera, Y., Ode, W., Wida, A., & Aziz, M. A. (2025). *Robusta Di Kampung Seed Agung Distrik Muting Kabupaten Merauke Evaluation of Land Suitability for Robusta Cofee Plant in Seed Agung Village Muting District Merauke Regency*. 12(2), 425–432.

- Mardhiah, M., Fazlina, Y. D., & Basri, H. (2022). Spatial Analysis of Critical Land Status and Land Use Directions in East Kluet District, South Aceh Regency. *Scientific Journal of Agricultural Students*, 7(3), 405–415.
- Margono, B. A., Purwanto, J., & Nugroho, S. (2025). Forestry Spatial Planning Policy Direction: Concerning the Long-Term National Development Plan 2025-2045. *Journal of Forestry Science*, 19(1).
- Maroeto, Priyadarshini, R., Winarno, A., Bening, K., Jeni, J., & Neovita, A. (2024). *Assessment of Land Suitability for Enhancing Key Crop Commodities : Pineapple , Coffee , and Mango*. 13(4), 1295–1307.
- Marpaung, A., D.Susilowati, Sopha, Siagian, G. D., Girsang, S., Tarigan, R., Marpaung, I., Silitonga, T., Sabrina, T., Rauf, A., Karo, B., Hutabarat, R., & Barus, S. (2023). The role of rhizosphere microbes as phosphate solubilizing bio fertilizers in shallot: a review The role of rhizosphere microbes as phosphate solubilizing bio fertilizers in shallot: a review. *IOP Conference Series*.
- Nainggolan, A. F., Banuwa, I. S., Buchari, H., Afandi, Aini, S. N., & Septiana, L. M. (2023). The Effect of Ridges and Fertilizer on the Loss of Nutrients and C-Organic Due to Erosion and Cassava Production (Maniho. *Journal of Tropical Agrotechnology*, 11(2), 315–321.
- Napitupulu, D., Rauf, A., Sembiring, M., & Marbun, P. (2024). *Physicochemical characteristics of andisols and their correlation to potato yield based on land mapping units*. October.
- Oktavia, A., Pudjiastuti, A. Q., Praseyorini, L., Agastya, M. I., Tri, U., Cahya, W., & Wilujeng, R. (2025). *using CROPWAT in Malang Regency Indonesia*. 1665(27), 114–116.
- Özkan, B., Dengiz, O., & Turan, İ. D. (2020). Site suitability analysis for potential agricultural land with spatial fuzzy multi-criteria decision analysis in regional scale under semi-arid terrestrial ecosystem. *Scientific Reports*, 10(1), 22074.
- Pratama, M. A. (2024). Evaluation of Land Suitability for Oil Palm Plants (*Elaeis guineensis* Jacq.) in Nagari Sungai Rumbai Timur, Sungai Rumbai District, Dharmasraya Regency. *Doctoral Dissertation, Andalas University*.
- Purwadi, & Siswanto. (2021). *Identification and mapping of critical land levels in the middle plains of Probolinggo Regency using geographic information system (GIS) techniques*. 14(1), 13–29.
- Puspapratiwi, D., Samali, N., Rahman, R., & Katili, H. A. (2023). *Determination of land for the development of fruit agrotourism in Bukit Tandalo, Banggai Regency*. 20 and 1.
- Ramadhan, P., & Twenty, P. (2023). *Decision Support System for Optimizing Selection of Horticultural Plants on Agricultural Land*. 11(2), 175–192.
- Reda, Y., & Abie, Y. (2024). Biophysical and socioeconomic characterization of Agewmariam experimental watershed in Northern Ethiopia: insights and

- management options. *Environmental Monitoring and Assessment*, 196(12), 1157.
- Ritung, S., Nugroho, K., Anny, M., & Suryani, E. (2011). *Technical Instructions for Land Evaluation for Agricultural Commodities*. Center for Research and Development of Agricultural Land Resources, Agricultural Research and Development Agency.
- Roberts, T. L., Purcell, L. C., Ross, W. J., Hoegenauer, K. A., Followell, C. A., & Pessotto, M. V. (2024). *Interaction of drought stress and potassium deficiency on soybean vigor and leaf temperature*. *September*, 1–14.
- Rotich, B., Szegi, T., Gelsleichter, Y. A., Fuchs, M., Ocansey, M., Phenson, J. N., Abdulkadir, M., Wawire, A., Mutuma, E., Mesele, S. A., Csorba, Á., Szegi, T., Gelsleichter, Y. A., Fuchs, M., & Ocansey, C. M. (2025). *Variation in soil organic carbon and total nitrogen stocks across elevation gradients and soil depths in the Mount Variation in Soil Organic Carbon and Total Nitrogen Stocks Across Elevation Gradients and Soil Depths in the Mount*. 14(6), 0–17.
- Rovi'ati, A., Muliawati, E. S., & Harjoko, D. (2019). The response of lowland cauliflower to nutrient concentrations in a modified floating hydroponic system. *Agroscience: Journal of Agronomy Research*, 21(1), 11–15.
- Ruslan, M., Fithria, A., Role of Loyalty, B., & Syam'ani, S. (2016). *Pattern of Forest and Land Rehabilitation Directions in the Amandit Watershed Sub-Sub-Sub, South Hulu Sungai Regency*. New York: University Press.
- Safitry, K. N., Amaru, K., Dwiratna, S., Technology, F., Agriculture, I., & Padjadjaran, U. (2023). *Envirotek: Scientific Journal of Environmental Engineering*. 15(2), 159–165.
- Santoro, V., & Schiavon, M. (2024). Role of soil abiotic processes on phosphorus availability and plant responses with a focus on strigolactones in tomato plants. In *Plant and Soil* (Vol. 494, Issue 1). Springer International Publishing.
- Santos, M., Cajaiba, R. L., Bastos, R., Gonzalez, D., Petrescu Bakış, A. L., Ferreira, D., Leote, P., Barreto da Silva, W., Cabral, J. A., Gonçalves, B., & Mosquera-Losada, M. R. (2022). Why Do Agroforestry Systems Enhance Biodiversity? Evidence From Habitat Amount Hypothesis Predictions. *Frontiers in Ecology and Evolution*, 9(January), 1–11.
- Sari, R., Maryam, & Rahayu A. Yusmah. (2023). *Vol. 12, No. 1, Year 2023*. 12(1), 11–19.
- Sarminah, S., & Karyati. (2018). Soil and Water Conservation Technology. In *Mulawarman University Press* (Vol. 602).
- Sarveswaran S, Johar, V., Singh, V., & Ragunathan C. (2023). Agroforestry: A Way Forward for Sustainable Development. *Ecology, Environment and Conservation*, 29(Suppl), 300–309.
- Sekhar, M., Lallawmkimi, M. C., Rani, D. V., Upadhyay, L., Tiwari, P., Verma, U., & Rajput, A. (2024). Agroforestry Practices and Their Impact on Soil Health

- and Fertility: A Review. *Journal of Experimental Agriculture International*, 46(9), 511–528.
- Selmy, S. A. H., Jimenez-ballesta, R., Kucher, D. E., Sayed, A. S. A., Garc, F. J., Yang, Y., & Yousif, I. A. H. (2024). *Land Suitability Assessment and Crop Water Requirements for Twenty Selected Crops in an Arid Land Environment*.
- Septiadi, D., & Yusuf, M. (2024). Determinants of Avocado Farming Income and Its Contribution to Farmers' Household Income in the Rinjani Geopark Area. *Journal of Agrita*, 6(1), 72–80.
- Sersenmudi, H. L., Aristotulus, E. T., & Tarore, R. C. (2022). Analysis of Critical Land Distribution in Lolak District, Bolaang Mongondow Regency. *Journal of Urban Planning and Areas*, 9(1), 31–39.
- Sharma, A. (2018). *A review on soil-site suitability evaluation for vegetable crops*. 6, 1204–1211.
- Simanjutak, T. J., S, K. S., Syahputra, H., Iskandar, S., Idrus, A., & Febrian, D. (2025). Identification of disease types in cayenne pepper plants using Convolutional Neural Network (CNN) algorithm in Bintang Village, Sidikalang Todo District. *JATI (Student Journal of Informatics Engineering)*, 9(1), 584–591.
- Solekhah, B. A., Priyadarshini, R., & Maroeto. (2024). *Study of Texture Distribution Patterns of Organic Matter on Various Land Uses*. 7(1), 256–265.
- Straffelini, E. (2020). Agriculture in Hilly and Mountainous Landscapes: Threats, Monitoring and Sustainable Management. *Geography and Sustainability*, 1.
- Syaifuddin, S. (2024). *Mapping of Qualitative and Quantitative Land Suitability of Horticultural Crops in Lhoksukon District, North Aceh Regency*. Malikussaleh University.
- Syenyantri, S., Azis, M., & Rahman, R. (2025). Evaluation of Land Suitability for Green Bean Plants (*Vigna radiata* L.) In Tabongo District, Gorontalo Regency. *Agrotek: Scientific Journal of Agricultural Sciences*, 9, 35–43.
- Tangge, N. A., Hartati, T. M., Idris, S. A., & Nengkeula, D. (2025). Land Use Directions Based on Land Ability Using Land Classification and Landuse Planning Methods. *Journal of Geography Education Research*, 10(1), 117–128.
- Tolera, A. M., Haile, M. M., Merga, T. F., & Feyisa, G. A. (2023). Assessment of land suitability for irrigation in West Shewa zone ., *Applied Water Science*, 13(5), 1–18.
- Wijayanti, F., Lestari, S. R., & Sholikah, D. H. (2025). *Study of the Quality of Biogeotextile Materials as Semi-Organic Mulch on Saline Land*. 30(2), 125–135.
- Yamani, A., Rudy, G. S., & R, A. A. (2025). *Analisis Kesesuaian Lahan Tanaman Agroforestry Analysis of Land Suitability for Agroforestry Crops in Forest*

Area with Special Purpose (KHDTK) University of Lambung Mangkurat. 13(1), 118–130.

- Yan, Y., Zhang, Y., Sharma, A., & Al-amri, J. F. (2021). *Evaluation of Suitability of Urban Land Using GIS Technology.*
- Yan, Z., Guo, Y., Sun, B., Gao, Z., Qin, P., Li, Y., Yue, W., & Cui, H. (2024). Combating land degradation through human efforts: Ongoing challenges for sustainable development of global drylands. *Journal of Environmental Management*, 354, 120254.
- Yudistira, A. (2023). Agusta Yudistira Agus Sutedjo. *Mapping of Critical Land in Pacet District and Trawas District, Mojokerto Regency*, 91–97.
- Yusnitasari, M., Aulia, C., & Ridwan, S. (2023). Antibacterial activity of various parts of the avocado (*Persea americana* mill). *Tambusai Health Journal*, 4(4), 7170–7174.
- Zainudin, Noor, R. B., & Triantoro, A. (2020). Evaluation of Land Suitability for the Development of Pepper Plants (*Piper nigrum* L .) In Loa Janan District, Kutai Kartanegara Regency. *Journal of Humid Tropical Agroecotechnology*, 3(1), 6–11.
- Zeng, Y., Zhang, Y., Hu, W., Chen, M., Hu, Q., Liu, X., & Zhu, X. (2024). A case study on soil slope landslide failure and parameter analysis of influencing factors for safety factor based on strength reduction method and orthogonal experimental design. *PLoS ONE*, 19(5 May), 1–20.