DAFTAR PUSTAKA

Adha, I., A. Kurniasih, H. Nugroho, P. Rachwibowo. 2018. Kajian analisis sesar di Perbukitan Jiwo Barat, Kecamatan Bayat, Kabupaten Klaten, Jawa Tengah. Jurnal Geosains dan Teknologi Vol. 1(1): 8 – 18.

Afu, S.M., Isong, I.A., Olim, D.M., Oruk, O.E., Aaron, M.E., Heung, B., K. John., 2024. The nexus of clay mineralogy and soil fertility under diverse parent materials in two distinct geomorphological settings. Environmental Earth Sciences 83: 653.

Akhilraj, T.M., S.S. Inamati, Sneha S. Kambli, D. Soman,R. Vasudeva. 2023.Growth performance of mahogany (swietenia macrophylla) under different soil types in northern region of karnataka. Indian Journal of Ecology. 50(5): 1712-1715.

Alfyan, M. F., N. I. Setiawan. 2014. Petrogenesis batuan metamorf di daerah Perbukitan Jiwo, Kecamatan Bayat, Kabupaten Klaten, Provinsi Jawa Tengah. Prosiding pada Seminar Nasional “Seminar Nasional Kebumian Ke-7 dan Simposium Pendidikan Geologi Nasional”, Yogyakarta, 14 Oktober 2014.

An, J., F. Zheng, X. Zhang. 2014. Effects of soil texture on runoff and sediment yield in the Loess Plateau. Catena Vol. 116: 1–12. An, X., K. Zhang, D. Xiong, Q. Zhang. 2014. Laboratory examination of rainwater runoff and particle transport from sandy soils. Catena Vol. 116: 81–88.

Azmi, C. U., Zuraida, T. Arabia. 2022. Beberapa sifat kimia Inceptisol yang disawahkan satu dan dua kali setahun di Kecamatan Linge Kabupaten Aceh Tengah. Jurnal Ilmiah Mahasiswa Pertanian Vol. 7(3): 467–476.

Brady, N. C. (2017). The nature and properties of soils (15th ed.). Pearson Education.

Bronto, S. 2010. Identifikasi gunung api purba pendul di Perbukitan Jiwo, Kecamatan Bayat, Kabupaten Klaten, Jawa Tengah. Jurnal Geologi dan Sumberdaya Mineral Vol. 20(1): 3–13

Calabrese, S., D. D. Richter, A. Porporato. 2018. The formation of clay-enriched horizons by lessivage. Geophysical Research Letters Vol. 45(15): 7588–7596.

Carvalho, T. R. R. D., M. F. Leão, E. A. G. Marques. 2020. Characterization of phyllite weathering profiles developed under tropical climate on Quadrilátero Ferrífero region, MG, Brazil. Journal of South American Earth Sciences, 103, 102727.

Certini, G., R. Scalenghe. 2023. The crucial interactions between climate and soil. Science of the Total Environment Vol. 856: 1–12

Chanan, M., F. A. C. Wibowo, A. L. Nidha. 2022. Keseimbangan hara makro tegakan jati (*Tectona grandis* L.f.) dengan metode DRIS. Jurnal Penelitian Hutan Tanaman Vol. 19(1): 1 – 9.

De Mastro, F., A. Traversa, C. Cocozza, M. Pallara, G. Brunetti. 2020. Soil Organic Carbon Stabilization: Influence of Tillage on Mineralogical and Chemical Parameters. Soil Systems, 4(3) : 1–14.

Dhaliwal, S.S., Dubey, S.K., Kumar, D., Toor, A.S., Walia, S.S., Randhawa, M.K., Kaur, G., · S. K. Brar. P. A. Khambalkar., Y. S. Shivey. 2024. Enhanced Organic Carbon Triggers Transformations of Macronutrients, Micronutrients, and Secondary Plant Nutrients and Their Dynamics in the Soil under Different Cropping Systems-A Review. Journal of Soil Science and Plant Nutrition 24: 5272–5292.

Eviati, E., S. Sulaeman, L. Herawaty, L. Anggria, U. Usman, H. E. Tantika, R. Prihatini, P. Wuningrum. 2023. Petunjuk Teknis Edisi 3: Analisis Kimia Tanah, Tanaman, Air, dan Pupuk. Balai Pengujian Standar Instrumen Tanah dan Pupuk: Bogor

Fajeriana, N., M. A. A. Gafur. 2023. Alfisol soil fertility before planting and after harvest as meloon planting media with bioboost fertilization. Jurnal Penelitian Pertanian Terapan Vol. 23(1): 73–80.

Fan, H., S. Sun, H. Le, F. Zhu, W. Wang, Y. Liu, J. Wang. 2020. An Experimental and Numerical Study of Diorite-Porphyrites With Different Weathered Degree in the Direct Shear Test. Frontiers in Earth Science, 7, 352:1 – 13.

García-Díaz, A., M. J. Marqués, B. Sastre, R. Bienes. 2018. Labile and stable soil organic carbon and physical improvements using groundcovers in vineyards from central Spain. Science of The Total Environment, 621, 387–397.

Ghani, A., K. Müller, J. Rother. 2019. Soil organic matter dynamics in calcareous soils under different land uses. Geoderma Vol. 337: 111–121.

Han, T., A. Cai, K. Liu, J. Huang, B. Wang, D. Li, M. Qaswar, G. Feng, H. Zhang. 2019. The links between potassium availability and soil exchangeable calcium, magnesium, and aluminum are mediated by lime in acidic soil. Journal of Soils and Sediments, 19(3), 1382–1392.

Hartosuwarno, S., J. Soesilo, B. T. Wibowo, H. Hamdalah, A. Majid, S. A. N. Shabrina. 2021. Karakteristik dan pembentukan batuan beku di Pegunungan Jiwo, Bayat, Jawa Tengah. Jurnal Mineral, Energi, dan Lingkungan Vol. 4(2): 18.

Huang, L.-M., X.-H. Zhang, M.-A. Shao. 2016. Pedogenesis significantly decreases the stability of water-dispersible soil colloids in a humid tropical region. Geoderma Vol. 274: 45–53.

Huang, M., J. Lan, S. Wang, J. Wang, X. Qi, L. Liu, K. Yue. 2024. Effects of soil exchangeable calcium in promoting the accumulation of soil organic carbon by karst vegetation restoration. Journal of Soil Science and Plant Nutrition Vol. 24: 843 – 854.

Katili, H. A. 2025. Spatial distribution of nutrients to determine soil fertility in mixed farming based on geostatistical kriging. Journal of Degraded and Mining Lands Management. Vol. 12(3): 7723 - 7738.

Kautsar, V., K. Faizah, A. I. Uktoro. 2024. Soil color comparison using munsell color chart and calibrated smartphone camera. Teknotan Vol. 18(1): 13–20

Kurniasih, A., I. Adha, H. Nugroho, P. Rachwibowo. 2018. Petrogenesis batuan metamorf di Perbukitan Jiwo Barat, Bayat, Klaten, Jawa Tengah. Jurnal Geosains dan Teknologi Vol. 1(1): 1–7.

Kurniawati. 2024. Pengaruh berbagai jenis tanah dengan berbagai faktor-faktor pembentuk yang berbeda terhadap lingkungan. Vol. 1(2): 41 - 48.

Ladjinga, E., I. A. Rachman, L. Ishak, S. Robo, F. Fataha. 2025. Variasi tingkat perkembangan tanah berdasarkan ordo tanah di Kelurahan Moti Kota, Kota Ternate, Indonesia. Cannarium Vol. 23(1): 9–25.

Liau, M., J. Low, K. H. Lee, T. B. Lim. 2025. Instrumental color determination of local soils and its variation with elemental profiles. Forensic Chemistry Vol. 43: 100644.

Lourenço, I. B., L. F. Guimarães, M. B. Alves, M. G. Miguez. 2020. Land as a sustainable resource in city planning: The use of open spaces and drainage systems to structure environmental and urban needs. Journal of Cleaner Production Vol. 276: 1–19.

Maharani, N. 2024. Indeks pelapukan tanah pada berbagai jenis tanah yang berasal dari berbagai jenis batuan di sebelah Barat Sungai Dengkeng, Bayat, Klaten. Fakultas Pertanian, Universitas Gadjah Mada. Yogyakarta. Skripsi

Navarro-Hasse, E., C. Yáñez, A. Neaman, D. Pinochet. 2023. The effects of parent rock on soil clay mineralogy and soil physicochemical properties: A review. Idesia (Arica), 41(4), 125 – 139.

Neina, D. 2019. The role of soil organic matter in soil health and food security. Soil Systems Vol. 3(4): 1 – 14.

Nóbrega, G. N., M. F. V. Santos, R. S. A. Nóbrega, E. S. D. Vasconcellos. 2023. Masked diversity and contrasting soil processes in tropical environments. SOIL Vol. 9: 445 – 464.

Nurhuda, M., M. Inti, E. Nurhidayat, D. J. Anggraini, A. M. Rokim, I. R. Setyaningsih, N. C. Setiawan, Y. Wicaksana, Y. Maryani. 2021. Kajian struktur tanah rizosfer tanaman kacang hijau dengan perlakuan pupuk kandang dan kascing. Jurnal Pertanian Agros Vol. 23(1): 35 – 43.

Nurza, I. S. A., P. I. Nursari, A. Zakhyana, M. Suryadi, N. Purnamasari, F. M. Khofifi, M. R. Wafyan, R. W. Noviyanti, N. Andreas. 2020. Uji kelayakan tanah terhadap penanaman tanaman pisang, singkong, dan ubi jalar di daerah sekitar villa silma Kecamatan Cilember Kabupaten Bogor. Risenologi (Jurnal Sains, Teknologi, Sosial, Pendidikan, dan Bahasa) 5(2): 26 – 31.

Oktapiani, T., B. Widiarso, U. E. Suryadi. 2024. Kajian sifat fisika tanah Inceptisols pada tiga penggunaan lahan di Desa Semadin Lengkong Kabupaten Melawi. Jurnal Sains Pertanian Equator Vol. 13(2): 525.

Ouallali, A., N. Bouhsane, S. Bouhlassa, V. Spalevic, S. Kader, R. Michael, P. Setras. 2024. Exploring soil pedogenesis through frequency-dependent magnetic susceptibility in varied lithological environments. Euro-Mediterranean Journal for Environmental Integration 10: 887 – 900.

Ouyang, N., Y. Zhang, H. Sheng, Q. Zhou, Y. Huang, Z. Yu. 2021. Clay mineral composition of upland soils and its implication for pedogenesis and soil taxonomy in subtropical China. Scientific Reports, 11(1): 9707.

Putra, D. P. E., D. Halim, S. S. Widagdo, R. R. S. Atmaja. 2020. Degradation of groundwater quality due to the occurrence of saltytasted water in Bayat District, Klaten, Central Java, Indonesia. Journal Of Degraded and Mining Lands Management Vol. 8(1): 2525 – 2536.

Putri, I. I., E. Nurjani. 2018. Persepsi dan adaptasi petani padi lahan kering di Klaten terhadap variabilitas curah hujan. Jurnal Bumi Indonesia Vol. 7(3): 1 – 12.

Putri, R. N., E. L. Pradita, S. Andari, W. Kurniawati. 2024. Pengaruh berbagai jenis tanah dengan berbagai faktor-faktor pembentuk yang berbeda terhadap lingkungan. Vol. 1(2): 41 - 48.

Rahmawati, D., D. H. Barianto, W. Rahardjo. 2022. Analisis mikrofasis batugamping Formasi Wungkal-Gamping jalur Padasan, Gunung Gajah, Bayat, Klaten, Jawa Tengah. Jurnal Teknik Geologi Vol. 5(1): 1.

Ran, C., M. Zhao, X. Huang, S. He, Y. Zhang. 2023. Threat of soil formation rate to health of karst ecosystems. Science of the Total Environment Vol. 894: 165116.

Ratnasari, N., B. Susilo. 2017. Kajian keterkaitan toponim dengan karakteristik wilayah di Kecamatan Bayat, Kabupaten Klaten, Provinsi Jawa Tengah. Jurnal Bumi Indonesia Vol. 6(3): 1–10.

Regasa, A., W. Haile, G. Abera. 2025. Variation in soil acidity across different land uses, soil types and altitudinal gradients in Western Oromia, Ethiopia. Scientific Reports 15: 31565.

Rumeon, I., J. M. Matinahoru, M. H. Hadijah.2023. Pengaruh jenis tanah bermikoriza terhadap pertumbuhan semai Samama (Neolamarckia macrophylla (Roxb.) Bosser) di persemaian. MAKILA Vol. 17(2): 163–176.

Ruppel, O.C. 2022. Overview of international soil law. Soil Security 6: 1 – 6.

Safitri, I. N., T. C. Setiawati, C. Bowo. 2018. Biochar dan kompos untuk peningkatan sifat fisika tanah dan efisiensi penggunaan air. TECHNO: Jurnal Penelitian Vol. 7(1): 116.

Sahrawat, K. L. 2017. Importance of soil pH in nutrient availability and crop productivity in tropical soils. Communications in Soil Science and Plant Analysis Vol. 48(8): 957 – 966.

Sarah, S., A. B. Baharuddin, B. Bustan. 2024. Sebaran nilai kapasitas tukar kation (ktk) dan kemasaman (pH) tanah di tanah vertisol Kecamatan Sakra Kabupaten Lombok Timur. Journal of Soil Quality and Management Vol. 3(1): 1–6.

Sholikah, D. H., S. S. Bratawijaya, A. J. Husada, R. Naufal, K. S. Wicaksono, S. Soemarno. 2024. Studi karakteristik fisika tanah zona perakaran dan produksi tanaman kopi (Coffea sp.) di Kecamatan Wajak, Kabupaten Malang. Jurnal Ilmu Lingkungan Vol. 22(3): 731 – 742.

Soil Survey Staff. 2014. Keys to Soil Taxonomy (12th ed.). USDA-NRCS. Soil Survey Staff. 2014. Keys to Soil Taxonomy Twelfth Edition. United States Department of Agriculture National Resources Conservation Service, USA

Sukarman, S., S. Ritung, M. Anda, E. Suryani. 2017. Pedoman Pengamatan Tanah di Lapangan. Badan Penelitian dan Pengembangan Pertanian, Kementrian Pertanian, Jakarta.

Sun, Z. X., Y. Y. Jiang, Q. B. Wang, P. R. Owens. 2018. Geochemical characterization of the loess-paleosol sequence in northeast China. Geoderma, 321, 127–140.

Sutarto, J. Soesilo, B. T. Wibowo, H. Hamdalah. 2020. Atlas Batuan Pegunungan Jiwo Bayat, Kabupaten Klaten Jawa Tengah. LPPM Universitas Pembangunan Nasioal “Veteran” Yogyakarta, Yogyakarta.

Tuas, M. A., K. T. P. Raharjo, O. B. Kapitan. 2022. Identifikasi sifat kimia tanah Entisol di lahan kering Desa Sekon Kecamatan Insana Kabupaten Timor Tengah Utara – NTT. Jurnal BETA (Biosistem dan Teknik Pertanian) Vol. 10(2): 396.

Ulfa, N., Y. Yulnafatmawita, A. Rasyidin. 2024. Kajian sifat fisika tanah pada beberapa umur tanaman kelapa sawit (Elaeis guineensis Jacq.) rakyat di Nagari Ladang

Panjang Kabupaten Pasaman, Sumatera Barat. Jurnal Agrikultura Vol. 35(2): 365–376.

Umanailo, I., R. G. Risamasu, F. Puturuhu, M. Luhukay. 2025. Analisis perbandingan indeks kemiripan tanah pada toposekuens granit Gunung Sirimau di Kota Ambon. Jurnal Pertanian Kepulauan: Vol.9(2): 106 – 117.

Vierra, E. J., H. Webb, G. H. Girty. 2018. Unravelling the development of a spheroidally weathered diorite-gabbro, Santa Margarita Ecological Reserve, Peninsular Ranges, Southern California, USA. Catena Vol. 163: 297–310.

Wang, Y., M. Liu, Y. Chen, T. Zeng, X. Lu, B. Yang, Y. Wang, L. Zhang, X. Nie, F. Xiao, Z. Zhang, J. Sun. 2021. Plants and microbes mediate the shift on ecosystem multifunctionality from low to high patterns across alpine grasslands on the Tibetan Plateau. Frontiers in Plant Science Vol. 12: 1–11.

Wanudara, W. P. 2024. Indeks pelapukan tanah pada berbagai jenis tanah yang berasal dari berbagai jenis batuan di sebelah Timur Sungai Dengkeng, Bayat, Klaten. Fakultas Pertanian, Universitas Gadjah Mada. Yogyakarta. Skripsi

Wilson, M. J. 2019. The importance of parent material in soil classification: A review in a historical context. Geoderma Vol. 333: 100–114.

Winarno, T., A. Kurniasih, J. Marin, I. A. Kusuma. 2017. Identifikasi jenis dan karakteristik lempung di Perbukitan Jiwo, Bayat, Klaten dan arahannya sebagai bahan galian industri. Jurnal Teknik Vol. 38(2): 65–70

Yan, T., J. Xue. 2024. A vulnerable soil environment study in karst areas: A bibliometric analysis. Frontiers in Environmental Science Vol. 12: 1418913.

Yu, Z., H. Y. H. Chen, E. B. Searle, J. Sardans, P. Ciais, J. Peñuelas, Z. Huang. 2020. “Whole Soil Acidification and Base Cation Reduction across Subtropical China.” Geoderma 361: 114107.

Zacháry, D., T. Filep, G. Jakab, M. Ringer, R. Balázs, T. Németh, Z. Szalai. 2023. The effect of mineral composition on soil organic matter turnover in temperate forest soils. Journal of Soils and Sediments 23: 1389–1402.

Zhang, J., X. Qu, X. Song, Y. Xiao, A. Wang, D. Li. 2023. Spatial variation in soil base saturation and exchangeable cations in tropical and subtropical China. Agronomy Vol. 13(781): 1–18

Zhang, L., Q. Huang, Z. Wang. 2025. Leaching dynamics of base cations in carbonate-derived soils under varying pH conditions. Soil Science Society of America Journal Vol. 89(2): 345–359.