

## DAFTAR PUSTAKA

- 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.
- Badan Pusat Statistik Kabupaten Klaten. 2020. Kecamatan Bayat dalam Angka. BPS Kabupaten Klaten, Klaten.
- Certini, G., R. Scalenghe. 2023. The crucial interactions between climate and soil. *Journal Elsevier : Science of the Total Environment* Vol 856: 1 – 12.
- Chen, Z. W., W. M. Gibson, H. Huang. 2008. High definition x-ray fluorescence: principles and techniques. Hindawi Publishing Corporation X – Ray Optics and Instrumentation: 1 – 10.
- El – Hinnawi, E., S. D. Abayazeed, A. S. Khalil. 2021. Spheroidal weathering of basalt from Gebel Qatrani, Fayum Depression, Egypt. *Bulletin of the National Research Centre* Vol 45 (1): 1 – 11
- Fedo, C. M., H. W. Nesbitt, G. M. Young. 1995. Unraveling the effects of potassium metasomatism in sedimentary rocks and paleosols, with implications for paleoweathering conditions and provenance. *Journal Geology* Vol. 23 (10): 921 – 924.
- Guo, W. D., W. R. Whalley, Z. C. Tian, J. Liu, T.S Ren. 2016. A simple model to predict soil penetrometer resistance as a function of density, drying, and depth in the field. *Soil and Tillage Research* Vol. 155: 190 – 198.
- Hafiduddin, M., A. Nugrahini. 2023. Analisis mineral plagioklas untuk menemukan pembekuan lava daerah Kenalan, Kecamatan Borobudur, Kabupaten Magelang, Provinsi Jawa Tengah. Prosiding pada seminar nasional “Rekayasa Teknologi Industri dan Informasi XVIII”, Yogyakarta, 11 November 2023.
- Kautsar, V., K. Faizah, A. I. Uktoro. 2024. Soil color comparison using munsell color chart and calibrated smartphone camera. *Teknotan* 18 (1): 13 – 20.
- Khalifa, M. A., N. M. Mashaal. 2023. Facies framework and depositional setting of the Middle-Upper Eocene Hamra Formation, north of Bahariya Oasis, Western Desert, Egypt. *Arabian Journal of Geoscience* Vol. 16 (297): 1 – 18.
- Krisnawati, H., M. Kallio, M. Kanninen. 2011. *Swietenia macrophylla* King: Ecology, silviculture, and productivity. CIFOR, Bogor.
- 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.
- Kusumandari, A. 2014. Soil erodibility of several types of green open space areas in Yogyakarta City, Indonesia. *Journal Procedia Environmental Sciences* Vol 20 (2014): 732 – 736.
- Latupeirissa, A. A., M. Luhukay, R. G. Risamasu. 2022. Karakteristik fisik, kimia dan mineral tanah di lokasi kampus IAIN, kecamatan Sirimau, Kota Ambon. *Jurnal Pertanian Kepulauan* Vol. 6 (2): 72 – 82.
- Lopez, E. V., A. A. Hernandez, R. M. Fernana. 2019. Site characteristics that determine the growth and productivity of teak (*Tectona grandis* L. F.) of young plantation in Guatemala. *Agronomia Costarricense* Vol. 43 (1): 135 – 148.

- Luo, X., P. Xia, J. Du, B. Lia, P. Zhi. 2024. Formation mechanism of fluvial residues from eastern watersheds of China : insight from corrected weathering process and sediment provenance. *Catena* Vol. 240: 1 – 12.
- Margui, E. I. Queralt, E. de Almeida. 2022. X-ray fluorescence spectrometry for environmental analysis: basic principles, instrumentation, applications and recent trends. *Journal of Chemosphere Elsevier* Vol. 303: 1 – 18.
- Meli, V., S. Sagiman, S. Gafur. 2018. Identifikasi sifat fisika tanah Ultisol pada dua tipe penggunaan lahan di Desa Betenung, Kecamatan Nanga Tayap, Kabupaten Ketapang. *Jurnal Perkebunan dan Lahan Tropika* Vol. 8 (2): 82 – 90.
- Neina, D. 2019. The role of soil pH in plant nutrition and soil remediation. *Hindawi Applied and Environmental Soil Science* Vol. 2019: 1 – 9.
- Nielsen, J. A., D. Mc. Morrow. 2011. *Elements of Modern X – Ray Physics Second Edition*. John Wiley and Sons, New York.
- Nooijer, L. J., L. P. Sampedro, F. J. Jorissen, J. Pawlowski, Y. Rosenthal, D. Dissard, G. J. Reichart. 2023. 500 million years of foramineral calcification. *Earth – Science Reviews* Vol. 243: 1 – 7.
- Nurhuda, M., Inti, M., Nurhidayat, E., Anggraini, D. J., Hidayat, N., Rokim, A. M., Azhar, A. R., Nurmaliatik, N., Nurwito, N., Setyaningsih, I. R., Setiawan, N. C., Wicaksana, Y., Darnawi, D., & Maryani, Y. (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, A. Akbar, M. Suryadi, N. Purnamasari, F. M. Khofifi, M. R. Wafyan, R. W. Noviyanti, N. Andreas, F. Ginola, K. Mercelli, M. A. Aprialdi, M. Faryhunnisa, D. L. Ma'wa, F. A. Risma. 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)* Vol. 5 (2): 26 – 31.
- Price, J. R., M. A. Velbel. 2003. Chemical weathering indices applied to weathering profiles developed on heterogeneous felsic metamorphic parent rocks. *Journal Chemical Geology* Vol 202: 397 – 416.
- Putri, N. S., A. Rahim, O. Patiung, M. M. T. Afasedanja. 2023. Pengujian x – ray fluorescence terhadap kandungan mineral logam pada endapan sedimen di Sungai Amamapare, Kabupaten Mimika, Papua Tengah. *Jurnal Teknik AMATA* Vol. 4 (01): 6 – 10.
- Putri, R. N., E. L. Pradita, S. Andari, W. Kurniawati. 2024. Pengaruh berbagai jenis tanah dengan berbagai faktor-faktor pembentuk yang berbeda terhadap lingkungan. *Jurnal Pertanian dan Perternakan* Vol. 1 (2): 41 – 48.
- Osat, M., A. Heidari, M. K. Eghbal, S. Mahmoodi. 2016. Impacts of topographic attributes on soil taxonomic classes and weathering indices in a hilly landscape in Northern Iran. *Journal Geoderma* Vol. 281: 90 - 101.
- Rahmawati, D., D. H. Barianto, W. Rahardjo. 2022. Analisis mikrofases batu gamping formasi Wungkal – Gamping jalur padasan, Gunung Gajah, Bayat, Klaten, Jawa Tengah. *Jurnal Teknik Geologi: Ilmu Pengetahuan dan Teknologi* Vol.5 (1): 1 – 8.
- Ramadhani, W. S., Soemarno, P. Cahyono, A. Rahmat, L. M. Septiana, D. Prasetyo. 2022. Pengaruh rotasi tanam dengan pisang cavendis pada kejenuhan aluminium dan ktk efektif di Pertanaman Nanas, Lampung Tengah. *Journal of Tropical Upland Resources* Vol. 4 (1): 39 – 45.

- Saikia, B. J., S. R. Goswami, R. Borthakur, I. B. Roy, R. R. Borah. 2015. Spectroscopic characterization and quantitative estimation of natural weathering of silicates in sediments of Dikrong River, India. *Journal of Modern Physics* Vol.6: 1631 - 1641.
- Santra, R., L. Young. 2016. Interaction of intense X-Ray beams with atoms. In: E. Jaeschke, S. Khan, J. Schneider, J. Hastings (Eds). *Journal of Synchrotron Light Sources and Free - Electron Lasers Springer* Vol.1: 1233 – 1260.
- Santari, P. T., M. Amin, R. Mulyawan. 2021. Perbaikan sifat tanah pada lahan berpasir dengan pemberian pupuk kandang dan pupuk hayati. *Prosiding Seminar Nasional Lahan Suboptimal ke-9 Tahun 2011 “Sustainable Urban Farming Guna Meningkatkan Kesejahteraan Masyarakat di Era Pandemi”*, Palembang, 20 Oktober 2021.
- Silva, B. P. C., M. L. N. Silva, S. H. G. Silva, A. C. Silva, H. R. Rocha, A. V. Inda, M. Mancini, N. Curl. 2022. From rock to soil: Elemental mobility during pedogenesis in a deep Ultisol profile at the Mantiqueira Mountain Range, Southeastern Brazil. *Journal of Geoderma Regional* Vol. 31 : 1 - 12.
- Sholikhah, D. H., S. S. Bratawijaya, A. J. Husada, R. Naufal, K. S. Wicaksono, Soemarno. 2024. Studi karakteristik sifat fisika tanah zona perakaran dan produksi tanaman kopi (*Coffea* sp.) di Kecamatan Wajak, Kabupaten Malang. *Jurnal Ilmu Lingkungan* Vol. 22 (3): 731 – 742.
- Strock, C. F., H. Rangarajan, C. K. Black, E. D. Schafer, J. P. Lynch. 2022. Theoretical evidence that root penetration ability interacts with soil compaction regimes to affect nitrate capture. *Annals of Botany* Vol. 129 : 315 – 330.
- Sucheta, K., G. Sheela, P. Dhaval. 2020. Analysis of soil samples for its physical and chemical parameters from Mehsana and Patan District. *Int. Res. Journal of Science and Engineering*: 86 – 94.
- Sukarman, S., S. Ritung, M. Anda, E. Suryani. 2017. *Pedoman Pengamatan Tanah di Lapangan*. Badan Penelitian dan Pengembangan Pertanian, Kementerian Pertanian, Jakarta.
- Sutarto, S., J. Soesilo, B. Triwibowo, H. Hamdalah. 2020. *Atlas Batuan Pegunungan Jiwo Bayat, Kabupaten Klaten, Jawa Tengah*. Lembaga Penelitian dan Pengabdian Kepada Masyarakat, Universitas Pembangunan Nasional “Veteran”, Yogyakarta.
- Swanda, J., H. Hanum, P. Marpaung. 2015. Perubahan sifat kimia inceptisol melalui aplikasi bahan humat ekstrak gambut dengan inkubasi dua minggu. *Jurnal Online Agroekoteknologi* Vol.3 (1) : 79 – 86.
- Tuncay, T., O. Dengiz, I. Bayramin, S. Kilic, O. Baskan. 2019. Chemical weathering indices applied to soils developed on old lake sediments in a semu – arid region of Turkey. *Eurasian Journal of Soil Science* Vol 8 (1): 60 – 72.
- USDA. 2024. Soil Texture Classification and Quick Field Test. [https://www.fao.org/fishery/static/FAO\\_Training/FAO\\_Training/General/x6706e/x6706e06.html](https://www.fao.org/fishery/static/FAO_Training/FAO_Training/General/x6706e/x6706e06.html). Diakses pada tanggal 22 September 2024.
- 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* 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.

- Wehr, J. B., T. E. Smith, N. W. Menzies. 2017. Influence of soil characteristics on teak (*Tectona grandis* L.F.) establishment and early growth in tropical Northern Australia. *Journal of Forest Research* Vol.22 (3): 153 – 159.
- Winarno, T., J. Marin. 2020. *Buku Ajar Mineralogi*. Undip Press Semarang, Semarang.
- Woldeyohannis, Y. S. 2024. Negative effect of soil compaction and investigation of its relation with soil physiochemical properties in mechanization farming system. *Journal Wiley Applied and Environmental Soil Science* Vol (2024): 1 – 8.
- Zhu, L., N. Hu, Z. Zhang, J. Xu, B. Tao, Y. Meng. 2015. Short-term responses of soil organic carbon and carbon pool management index to different annual straw return rates in a rice–wheat cropping system. *Journal of Catena* Vol (135): 283 – 289.