



## DAFTAR PUSTAKA

- Adeyemo. A.J., O.O. Akingbola., S.O. Ojeniyi. 2019. Effects of poultry manure on soil infiltration, organic matter contents and maize performance on two contrasting degraded alfisols in southwestern Nigeria. *Journal of Recycling of Organic Waste in Agriculture*. 8:S73-S80. <https://doi.org/10.1007/s40093-019-0273-7>
- Afranti. 2010. *Macam Buah-Buahan untuk Kesehatan*. Bandung: Alfabeta.
- Amare, G & B. Desta. 2021. Coloured plastic mulches: impact on soil properties and crop productivity. *Chemical and Biological Technologies in Agriculture*. 8(4):1-9. <https://doi.org/10.1186/s40538-020-00201-8>
- Arata, Y., T. Gomi & R.C. Sidle. 2020. Topographic features and stratified soil characteristics of a hillslope with fissures formed by the 2016 Kumamoto earthquake. *Geoderma*. 376:114547. <https://doi.org/10.1016/j.geoderma.2020.114547>
- Arifin, M., R. Devnita., R. Hudaya., A. Sandrawati., D.S. Saribun., R. Harryanto & G. Herdiansyah. 2017. Pedogenesis dan klasifikasi tanah yang berkembang dari dua formasi geologi dan umur bahan erupsi gunung tangkuban perahu. *Soilrens*. 15(1):20-28
- Arifin, M., N.D. Putri., A. Sandrawati & R. Harryanto. 2018. Pengaruh posisi lereng terhadap sifat fisika dan kimia tanah pada incertisols di Jatinangor. *Soilrens*. 16(2):37-44
- Arisandi, D. 2016. Sebaran spasial hasil proses erosi parit (*gully erosion*) yang berkembang di DAS Bompon Kabupaten Magelang Provinsi Jawa Tengah. Tesis. Fakultas Geografi. Universitas Gadjah Mada. Yogyakarta
- Arsyad, S. 2010. *Konservasi Tanah dan Air*. IPB Press. Bogor
- Arsyad, U., R. Barkey., Wahyuni & K.K. Matandung. 2018. Karakteristik tanah longsor di Daerah Aliran Sungai Tangka. *Jurnal Hutan dan Masyarakat*. 10(1):203-214. ISSN 1907-5316
- Baba, H.O., S. Peth., R. Horn., O. Bens & R.F. Hutt. 2015. Quantification of mechanical strength and sliding stability of an artificial water catchment (Chicken Creek). *Soil & Tillage Research*. 66-78
- Bachtiar, B. 2019. Hubungan antar sifat-sifat tanah dibawah tegakan lamtoro gung. *Jurnal Bioma*. 4(2):173-182
- Badan Pusat Statistik Kabupaten Purworejo. 2021. Kecamatan Bener dalam Angka 2021. Kabupaten Purworejo, Jawa Tengah
- Balai Penelitian Tanah. 2006. Sifat Fisika Tanah dan Metode Analisisnya. Balai Besar Litbang Sumberdaya Lahan Pertanian. Badan Penelitian dan Pengembangan Pertanian. Departemen Pertanian. Bogor
- Bai, Z., H. Liu., J. Li., M. Li., P. Gong., P. Li & L. Li. 2022. Eight-year comparison of agroeconomic benefits of open ditch and subsurface pipe drainage in mulched drip irrigated saline-sodic farmland. *Irrigation Science*, 0123456789. <https://doi.org/10.1007/s00271-022-00827-6>
- Bhavsar, S.N & A.J. Patel. 2014. Analysis of Swelling and Shrinkage Properties of Expansive Soil using Brick Dust as a Stabilizer. *International Journal of Emerging Technology and Advanced Engineering*. 4(12):303-308



- Blonska, E., J. Lasota., W. Piaszczyk., M. Wiechec & A.K. Iwan. 2018. The effect of landslide on soil organic carbon stock and biochemical properties of soil. *Journal Soils Sediments.* 18:2727-2737. DOI 10.1007/s11368-017-1775-4
- BNPB. "Data Informasi Bencana Indonesia" (DIBI).
- Bordoni, M., A. Cislaghi., A. Vercesi., G.B. Bischiotti & A. Meisina. 2020. Effects of plant roots on soil shear strength and shallow landslide proneness in an area of northern Italian Apennines. *Bulletin of Engineering Geology and Environment.* 79:3361-3381. <https://doi.org/10.1007/s10064-020-01783-1>
- Budianto, Y & J. Sartohadi. 2016. Keterdapatannya sensitive clay pada lokasi longsorlahan di DAS Bompon, Kabupaten Magelang, Jawa Tengah. *Jurnal Bumi Indonesia.* 5(4):1-9
- Busari, M.A., G.O. Bankole., I.A. Adiamo., R.O. Abiodun & O.H. Ologunde. 2022. Influence of mulch and poultry manure application on soil temperature, evapotranspiration and water use efficiency of dry season cultivated okra. *International Soil and Water Conservation.* <https://doi.org/10.1016/j.iswcr.2022.09.003>
- Cammeraat, E., R.V. Beek & A. Kooijman. 2005. Vegetation succession and its consequences for slope stability in SE Spain. *Plant and Soil.* 278:135-147. DOI 10.1007/s11104-005-5893-1
- Chaduvula, U., B.V.S. Viswanadham & J. Kodikara. 2017. A study on desiccation cracking behavior of polyester fiber-reinforced expansive clay. *Applied Clay Science.* 142:163-172. <https://doi.org/10.1016/j.clay.2017.02.008>
- Chang, J., J. Ma & X. Tang. 2022. Study on strength attenuation characteristics of residual expansive soil under wetting-drying cycles and low stress and its relationship with shallow landslide. *Hindawi Geofluids.* ID 6277553:1-10. <https://doi.org/10.1155/2022/6277553>
- Chen, D., W. Wei, & L. Chen. 2021. Effects of terracing on soil properties in three key mountainous regions of China. *Geography and Sustainability.* 2:195-206. <https://doi.org/10.1016/j.geosus.2021.08.002>
- Chigira, M., J. Tajika & S. Ishimaru. 2019. Landslides of pyroclastic fall deposits induced by the 2018 Eastern Iburi Earthquake with special reference to the weathering of pyroclastics. *DPRI Annuals,* 62, pp.348-356.
- Chu, M.L., G. Fox., R.M. Cancienne & G.V. Wilson. 2008. Seepage caused tension failures and erosion undercutting hillslopes. *Journal of Hydrology.* 359(3). DOI:10.1016/j.jhydrol.2008.07.005
- Cohen-Waeber, J., Bürgmann, R., Chaussard, E., Giannico, C., & Ferretti, A. (2018). Spatiotemporal Patterns of Precipitation-Modulated Landslide Deformation From Independent Component Analysis of InSAR Time Series. *Geophysical Research Letters,* 45(4), 1878–1887. <https://doi.org/10.1002/2017GL075950>
- da Silva, E. C., M.V. da Silva Sales., S. Aleixo., L.C.B. Rinaldi., N.M. Pedrosa., A.C. Gama-Rodrigues & E.F. Gama-Rodrigues. 2023. Interconnection between pedogenesis and phosphorus cycle in temperate soils. *Journal of Soils and Sediments,* 1–8. <https://doi.org/10.1007/s11368-023-03434-w>
- Das, B.M. 2006. *Principles of Geotechnical Engineering.* Thomson Learning College. Stamford



- Delsiyanti, Widjajanto, D dan Rajamuddin, U.A. 2016. Sifat fisik tanah pada beberapa penggunaan lahan di Desa Oloboju Kabupaten Sigi. *Jurnal Agrotekbis*. 4(3):227-234
- Deng, C., G. Zhang., Y. Liu., X. Nie., Z. Li., J. Liu & D. Zhu. 2021. Advantages and disadvantages of terracing: A comprehensive review. *International Soil and Water Conservation Research*, 9(3), 344–359. <https://doi.org/10.1016/j.iswcr.2021.03.002>
- Dill, H.G. 2016. Kaolin: Soil, rock and ore: From the mineral to the magmatic, sedimentary and metamorphic environments. *Earth-Science Reviews*. 161:16-129. <https://doi.org/10.1016/j.earscirev.2016.07.003>
- Ding, B., Y. Zhang., X. Yu., G. Jia., Y. Wang., Y. Wang., P. Zheng & Z. Li. 2022. Effects of forest cover type and ratio changes on runoff and its components. *International Soil and Water Conservation Research*, 10(3), 445–456. <https://doi.org/10.1016/j.iswcr.2022.01.006>
- Du, X., J. Jian., C. Du & R.D. Stewart. 2022. Conservation management decreases surface runoff and soil erosion. *International Soil and Water Conservation Research*, 10(2), 188–196. <https://doi.org/10.1016/j.iswcr.2021.08.001>
- Dulur, N.W.D., I.G.M. Kusnarta & W. Wangiyana. 2015. Aplikasi pasir dan pupuk kandang pada bedeng permanen untuk perbaikan sifat tanah dan pertumbuhan padi di lahan vertisol tada hujan Lombok. *Agroteksos*. 25(2):102-108
- Fairizi, D. 2015. Analisis dan evaluasi saluran drainase pada kawasan perumnas talang kelapa di Sub DAS Lambidaro Kota Palembang. *Jurnal Teknik Sipil dan Lingkungan*. 3(1):755-765. ISSN: 2355-374X
- Ferro-Vázquez, C., Lang, C., Kaal, J., & Stump, D. (2017). When is a terrace not a terrace? The importance of understanding landscape evolution in studies of terraced agriculture. *Journal of Environmental Management*, 202, 500–513.
- Firdaus, H.S., Ipranta & Hani'ah. 2018. Pemetaan formasi batuan dengan menggunakan citra landsat 8 dan terrasar-x (studi kasus: Kota Batu, Jawa Timur). *Jurnal Geodesi dan Geomatika*. 1(1):12-19. ISSN 2621-9883
- Forte, G., M. Pirone., A. Santo., M.V. Nicotera., G. Urciuoli. 2019. Triggering and predisposing factors for flow-like landslides in pyroclastic soils: the case study of the Lattari Mts. (southern Italy). *Engineering Geology* 257. 105-137
- Fossen, H. 2016. *Structural Geology*. Cambridge University Press. England. ISBN:9781107057647
- Frinckh, M. R & M.S. Wolfe. 2007. The epidemiology of plant diseases: diversification strategies. *Journal The Epidemiology of Plant Diseases*. 3 (3): 217-222.
- Guo, W., L. Luo., H. Li., W. Wang & Y. Bai. 2022. Runoff- and erosion-reducing effects of vegetation on the loess hillslopes of China under concentrated flow. *International Soil and Water Conservation Research*, 10(4), 662–676. <https://doi.org/10.1016/j.iswcr.2022.03.007>
- Gveric, Z., V. Rubinic., S. Kampic., Vrbanec, P., Paradzik, A. 2022. Clay mineralogy of soils developed from Miocene marls of Medvenica Mt., NW Croatia: Origin and transformation in temperate climate. *Catena*. 216:1-13
- Hafif, B. 2020. Kerusakan tanah pada lahan perkebunan dan strategi pencegahan serta penanggulangannya. *Perspektif Review Penelitian Tanaman Industri*. 19(2):105-121



- Hanafiah, K.A. 2013. Dasar-dasar Ilmu Tanah. Raja Grafindo Persada. Jakarta
- Handayani, S dan Karnilawati. 2018. Karakterisasi dan klasifikasi tanah ultisol di Kecamatan Indrajaya Kabupaten Pidie. Jurnal Ilmiah Pertanian. 14(2):52-59
- Harahap, F.S., R. Oesman., W. Fadhillah& A.P Nasution. 2021. Penentuan bulk density ultisol di lahan praktek terbuka Universitas Labuhanbatu. Agrovital: Jurnal Ilmu Pertanian. 6(2):56-59
- Hardjowigeno, S. 2010. Ilmu Tanah. Akademika Pressindo, Jakarta
- Hardjowigeno, S. 2016. Klasifikasi Tanah dan Pedogenesis. Akademika Pressindo, Jakarta
- Hardiyatmo, H.C. 2012. Tanah Longsor dan Erosi: Kejadian dan Penanganan. UGM Press. Yogyakarta
- Haryati, U. 2014. Karakteristik fisik tanah kawasan budidaya sayuran dataran tinggi , hubungannya dengan strategi pengelolaan lahan. Jurnal Sumberdaya Lahan. 8(2):125-138. ISSN 1907-0799
- Hasan, M., A. Sayed., M.A. Hossain., M. Hossain., M.H. Sohel. 2017. Determination of consistency limits of different agricultural soils. Journal of Agricultural and Soil Science. 5(1):1-7. ISSN 2408-7254
- Hasnawir, 2012. Intensitas curah hujan memicu tanah longsor dangkal di Sulawesi Selatan. Jurnal Penelitian Kehutanan Wallacea. 1(1):62-73
- Hassen, G & A. Bantider. 2020. Assessment of drivers and dynamics of gully erosion in case of Tabota Koromo and Koromo Danshe watershed, South Central Ethiopia. Geoenvironmental Disasters. 7:5. <https://doi.org/10.1186/s40677-019-0138-4>
- Hendrawan, R. 2016. Proses proses geologi dan perubahan bentang alam. Jurnal Teknik Pertambangan.
- Heng, T., R. Liao., Z. Wang., W. Wu., W. Li., & J. Zhang. 2018. Effects of combined drip irrigation and sub-surface pipe drainage on water and salt transport of saline-alkali soil in Xinjiang, China. Journal of Arid Land, 10(6), 932–945. <https://doi.org/10.1007/s40333-018-0061-7>
- Hermawan, B., 2004. Penetapan kadar air tanah melalui pengukuran sifat dielektrik pada berbagai tingkat kepadatan. Jurnal Ilmu-Ilmu Pertanian Indonesia. 6(2):66-74
- Hilimire, K., & K. Greenberg. 2019. Water conservation behaviors among beginning farmers in the western United States. Journal of Soil and Water Conservation, 74(2), 138–144. <https://doi.org/10.2489/jswc.74.2.138>
- Hudek, C., S. Stanchi., M. D'Amico & M. Freppaz. 2017. Quantifying the contribution of the root system of alpine vegetation in the soil aggregate stability of moraine. International Soil and Water Conservation Research. 5(1):36-42. <https://doi.org/10.1016/j.iswcr.2017.02.001>
- Idjudin, A. A. 2011. Peranan konservasi lahan dalam pengelolaan perkebunan. Jurnal Sumberdaya Lahan. 5(2):103-116
- Idrus, A., D.Y. Fatimah & F. Hakim. 2015. Karakteristik alterasi dan mineralisasi emas pada sistem epitermal prospek randu kuning , Kecamatan Selogiri, Kabupaten Wonogiri, Jawa Tengah. Prosiding Seminar Nasional Kebumian ke-8. Academia-industry Linkage. Yogyakarta



- Indriani, Y.N., S.B.Kusumayudha., H.S. Purwanto. 2017. Analisis Gerakan Massa Berdasarkan Sifat Fisik Tanah Daerah Kalijambe dan Sekitarnya, Kecamatan Bener, Kabupaten Purworejo, Jawa Tengah. *Jurnal Mineral, Energi dan Lingkungan.* 1(2):39-49
- Iverson, R.M., D.L. George., K. Allstadt., M.E. Reid., B.D. Collins., J.W. Vallance., S.P. Schilling., J.W. Tuhan., C.M. Cannon., C.S. Magirl., R.L. Baum., J.A. Coe., W.H. Schulz & J.B. Bower. 2015. Landslide mobility and hazards: implication of the 2014 Oso disaster. *Earth and Planetary Science Letters.* 412:197-208. <https://doi.org/10.1016/j.epsl.2014.12.020>
- Junaidi, D. 2011. Pemodelan Perilaku Rayapan Tanah (*Creep*) Studi Kasus Lereng Kalibawang. Tesis. Pascasarjana Fakultas Teknik. Universitas Gadjah Mada. Yogyakarta
- Juventia, S.D., I.L.M.S. Noren., D.F. Apeldoorn., L. Ditzler & W.A.H. Rossing. 2022. Spatio-temporal design of strip cropping system. *Agricultural System.* 201. <https://doi.org/10.1016/j.aghsy.2022.103455>
- Kahle, P., J. Moller., C. Baum & A. Gurgel. 2013. Tillage-induced changes in the distribution of soil organic matter and the soil aggregate stability under a former short rotation coppice. *Soil & Tillage Research.* 133:49-53. <http://dx.doi.org/10.1016/j.still.2013.05.010>
- Kamal, A.S.M.M., F. Hossain., M.Z. Rahman., B. Ahmed & P. Sammonds. 2022. Geological and soil engineering properties of shallow landslides occurring in the Kutupalong Rohingya Camp in Cox's Bazar, Bangladesh. *Landslide.* 19:465-478. DOI 10.1007/s10346-021-01810-6
- Kameda, J., Kamiya, H., Masumoto, H., Morisaki, T., Hiratsuka, T & Inaoi, C. 2019. Fluidized landslides triggered by the liquefaction of subsurface volcanic deposits during the 2018 Iburi–Tobu earthquake, Hokkaido. *Scientific Reports.* 9:13119.
- Kameda, J & T. Morisaki. 2022. Rheological properties of concentrated allophane, halloysite, and kaolinite suspensions. *Applied Clay Science.* 226:106557. <https://doi.org/10.1016/j.clay.2022.106557>
- Karlen, D.L & C.W. Rice. 2015. Soil degradation: Will humankind ever learn?. *Sustainability.* 12490-12501
- Karnawati, D., 2007. Mekanisme Gerakan Massa Batuan Akibat Gempa Bumi; Tinjauan dan Analisis Geologi Teknik. *Dinamika Teknik Sipil.* 7(2):179-190
- Khan, M.Z & B.A.A. Shoumik. 2022. Land degradation neutrality concerns in Bangladesh. *Soil Security.* 9:100075. <https://doi.org/10.1016/j.soilsec.2022.100075>
- Kimura, T., N. Sakai., 2017. Large-scale assessment slope and ground deformation after the 2016 Kumamoto earthquake by remote sensing. *Technical Note of the National Research Institute for Earth Science and Disaster Resilience* 411. 177-182
- Kusuma, R.I., E. Mina & P.R. Hasibuan. 2017. Stabilisasi tanah lempung dengan menggunakan pasir laut dan pengaruhnya terhadap nilai CBR (*California Bearing Ratio*) Studi kasus: jalan Desa Mangkualam Kecamatan Cimanggu-Kab Pandeglang. *Jurnal Fondasi.* 6(2):24-33



- Kusumoarto, A & R. Hidayat. 2018. Pemantauan dan pengendalian kerusakan lahan untuk produksi biomassa di Kabupaten Kuningan Jawa Barat. *Jurnal Arsitektur.* 1(1):1-20. ISSN 2654-3680
- Li, A.D., P.T. Guo., W. Wu & H.B. Liu. 2017. Impacts of terrain attributes and human activities on soil texture class variation in hilly areas, South-west China. *Environ Monit Assess.* 189:281. DOI 10.1007/s10661-017-5997-0
- Li, Y., J. Chen., Q. Dong., H. Feng & K.H.M Siddique. 2022. Plastic mulching significantly improves soil enzyme and microbial activities without mitigating gaseous N emissions in winter wheat-summer maize rotations. *Field Crop Research.* 286. <https://doi.org/10.1016/j.fcr.2022.108630>
- Liu, X., H. Li., S. Zhang., R.M. Cruse & X. Zhang. 2019. Gully erosion control practices in Northeast China: A Review. *Sustainability.* 11. 5065. doi:10.3390/su11185065
- Lubis, K.S. 2015. Pengantar Fisika Tanah. USU Press. Medan
- Luta, D.A., M. Siregar., T. Sabrina., F.S. Harahap. 2020. Peran aplikasi pemberahan tanah terhadap sifat kimia tanah pada tanaman bawang merah. *Jurnal Tanah dan Sumberdaya Lahan.* 7(1):121-125
- Ma'aruf, B. 2015. Pola geometri rayapan tanah di segmen Km 15,9 saluran irigasi Kalibawang Kulon Progo dengan metode *Kalman Filtering*. Disertasi. Universitas Gadjah Mada. Yogyakarta
- Mahapatra, S., M.K. Jha., S. Biswal & D. Senapati. 2020. Assessing Variability of Infiltration Characteristics and Reliability of Infiltration Models in a Tropical Sub-humid Region of India. *Scientific Reports,* 10(1), 1–18. <https://doi.org/10.1038/s41598-020-58333-8>
- Mansida, A., F. Gaffar., M.A. Zainuddin & A.M. Syamsuri. 2021. Analysis of infiltration and surface runoff using rainfall simulator with variation of rain intensity and vegetation. *IOP Conference Series: Materials Science and Engineering,* 1088(1), 012108. <https://doi.org/10.1088/1757-899x/1088/1/012108>
- Margolang, R. D., Jamilah, & M. Sembiring. 2015. Karakteristik Beberapa Sifat Fisik, Kimia, Dan Biologi Tanah Pada Sistem Pertanian Organik. *Jurnal Online Agroekoteknologi,* 3(2), 717–723.
- Mauri, L., Straffelini, E & Tarolli, P. 2022. Multi-temporal modeling of road-induced overland flow alterations in a terraced landscape characterized by shallow landslide. *International Soil and Water Conservation Research.* 10(2): 240-253. <https://doi.org/10.1016/j.iswcr.2021.07.004>
- Malongweni, S.O., Y. Kihara., K. Sato., T. Tokunari., T. Sobuda., K. Mrubata., T. Masunaga. 2019. Impact of agricultural waste on the shrink –swell behavior and cracking dynamics of expansive soils. *Journal of Recycling of Organic Waste in Agriculture.* 8:339-349. <https://doi.org/10.1007/s40093-019-0265-7>
- Martin, M.A., Y.A. Pachepsky., C.G. Gutierrez & M. Reyes. 2018. On soil textural classification and soil texture-based estimations. *Solid Earth,* (9):159-165
- Meten, M., N. PrakashBandary & R. Yatabe. 2015. Effect of landslide factor combinations on the prediction accuracy of landslide susceptibility maps in the Blue Nile Gorge of Central Ethiopia. *Geoenvirontmental Disaster.* 2(9). DOI 10.1186/s40677-015-0016-7



- Monteleone, S & M.Sabatino. 2014. Hydrogeological hazards and weather events: Triggering and evolution of shallow landslides. International Soil and Water Conservation Research. 2(2):23-29. [https://doi.org/10.1016/S2095-6339\(15\)30003-4](https://doi.org/10.1016/S2095-6339(15)30003-4)
- Moon, V. 2016. Halloysite behaving badly: geomechanics and slope behavior of halloysite rich soils. Clay Miner. 51:517-528
- Mugagga, F., V. Kakembo & M. Buyinza. 2012. A characterization of the physical properties of soil and the implications for landslide occurrence on the slopes of Mount Elgon, Eastern Uganda. Nat Hazards. 60:1113-1131. DOI 10.1007/s11069-011-9896-3
- Muzaiyanah, S & Subandi. 2016. Peranan bahan organik dalam peningkatan produksi kedelai dan ubi kayu pada lahan kering masam. Iptek Tanaman Pangan. 11(2):149-158
- Naryanto, H.S., H. Soewandita., D. Ganessa., F. Prawiradisastra & A. Kristijono. 2019. Analisis penyebab kejadian dan evaluasi bencana tanah longsor di Desa Banaran, Kecamatan Pulung, Kabupaten Ponorogo, Provinsi Jawa Timur Tanggal 1 April 2017. Jurnal Ilmu Lingkungan. 17(2):272-282. ISSN:1829-8907
- Nazari, S., H.R. Momtaz & M. Servati, M. 2022. Modelling cation exchange in gypsiferous soils using hybrid approach involving the artificial neural networks and ant colony optimization (ANN-ACO). Modelling Earth System and Environment. 8:4065-4074. <https://doi.org/10.1007/s40808-021-01344-9>
- Noelle, S., D. Fenguia & D.G. Nkouathio. 2023. Contribution of soil physical properties in the assessment of flood risks in tropical areas : case of the Mbo plain. Natural Hazards, 0123456789. <https://doi.org/10.1007/s11069-023-05818-0>
- Notohadiprawiro, T. 2000. Tanah dan Lingkungan. Fakultas Pertanian. Universitas Gadjah Mada. Yogyakarta
- Noviyanto, A., J. Sartohadi & B.H. Purwanto. 2020. The distribution of soil morphological characteristics for landslide-impacted Sumbing Volcano, Central Java-Indonesia. Geoenvirontmental Disaster. 7:25. <https://doi.org/10.1186/s40677-020-00158-8>
- Ogieriakhi, M.O & R.T. Woodward. 2022. Understanding why farmers adopt soil conservation tillage: A systematic review. Soil Security. 9:100077. <https://doi.org/10.1016/j.soisec.2022.100077>
- Oorthuis, R., M. Hürlimann., J. Vaunat., J. Moya & A. Lloret. 2022. Monitoring the role of soil hydrologic conditions and rainfall for the triggering of torrential flows in the Rebaixader catchment (Central Pyrenees, Spain). Landslides, September 2022, 249–269. <https://doi.org/10.1007/s10346-022-01975-8>
- Orland, E., J.J. Roering., M.A. Thomas & B.B. Mirus. (2020). Deep Learning as a Tool to Forecast Hydrologic Response for Landslide-Prone Hillslopes. Geophysical Research Letters, 47(16). <https://doi.org/10.1029/2020GL088731>
- Pangemanan, V.G.M. 2014. Analisis kestabilan lereng dengan metode fellenius (Studi Kasus: Kawasan Citraland). Jurnal Sipil Statik. 2(1):37-46. ISSN 2337-6732



- Pandey, P.K., P.P. Dabral & V. Pandey. 2016. Evaluation of reference evapotranspiration methods for the northeastern region of India. International of Soil and Water Conservation. 4:52-63. <http://dx.doi.org/10.1016/j.iswcr.2016.02.003>
- Pangemanan, V.G.M. 2014. Analisis kestabilan lereng dengan metode fellenius (Studi Kasus: Kawasan Citraland). Jurnal Sipil Statik. 2(1):37-46. ISSN:2337-6732
- Pertuz-Paz, A., Monsalve, G., Loaiza-Usuga, J.C., Caballero-Acosta, J.H., Agudelo-Velez, L.I & Sidle, R.C. 2020. Linking soil hydrology and creep: A Northern Andes Case. Geosciences, 10, 472
- Puja, I.N. 2016. Bahan Ajar Fisika Tanah. Program Studi Agroekoteknologi. Fakultas Pertanian. Universitas Udayana. Denpasar
- Punamawati, D.I & M. Khosbi. 2019. Identifikasi potensi gerakan massa berdasarkan tingkat kerawanan di Desa Kedungbendo dan sekitarnya, Kecamatan Arjosari Kabupaten Pacitan Provinsi Jawa Timur. Jurnal Teknologi. 12(1):28-33
- Pusat Vulkanologi dan Mitigasi Bencana Geologi. 2015. Buklet Gerakan Tanah . Badan Geologi, Kementerian Energi Sumberdaya Mineral. Bandung
- Putri, O.H., S.R. Utami & S. Kurniawan. 2019. Sifat kimia tanah pada berbagai penggunaan lahan di UB Forest. Jurnal Tanah dan Sumberdaya Lahan. 6(1):1075-1081
- Permanajati, I., Z. Zakaria., M.S.D. Hadian., H.Z. Anwar. 2017. strategi pengelolaan wilayah rawan longsor pada batuan breksi piroklastik (Studi kasus wilayah longsor Gunung Pawinuhan, Banjarnegara). Prosiding Pengembangan Sumber Daya Perdesaan dan Kearifan Lokal Berkelanjutan VII. Purwokerto 17-18 November 2017. 177-186
- Pratiwi, E.S., J. Sartohadi & Wahyudi. 2019. Geoelectrical prediction for sliding plane layers of rotational landslide at the volcanic transitional landscapes in Indonesia. IOP Conf Series: Earth and Environmental Science. doi:10.1088/1755-1315/286/1/012028
- Priyono, 2015. Hubungan klasifikasi longsor, klasifikasi tanah rawan longsor dan klasifikasi tanah pertanian rawan longsor. GEMA XXVII. 1602-1617
- Pulungan, N.A & J. Sartohadi. 2018. New approach to soil formation in the transitional landscape zone: weathering and alteration of parent rocks. Journal of Environments. 5(1):1-7. <https://doi.org/10.20448/journal.505.2018.51.1.7>
- Purwaningsih, R., J. Sartohadi & M.A. Setiawan. 2020. Trees and crop arrangement in the agroforestry system based on slope units to control landslide reactivation on volcanic foot slopes in Java, Indonesia. Land. 9, 327. doi:10.3390/land9090327
- Putinella, J.A. 2011. Perbaikan sifat fisik tanah regosol dan pertumbuhan tanaman sawi (*Brassica juncea* L.) akibat pemberian bokashi elai sagu dan pupuk urea. Jurnal Budidaya Pertanian. 7:35-40
- Pirenaningtyas, A., E. Muryani & D.H. Santoso. 2020. Teknik Rekayasa Lereng untuk Pengelolaan Gerakan Massa Tanah di Dusun Bengle, Desa Dlepoh, Kecamatan Tirtomoyo, Kabupaten Wonogiri, Provinsi Jawa Tengah. Jurnal



- Geografi : Media Informasi Pengembangan Dan Profesi Kegeografian, 17(1), 15–22. <https://doi.org/10.15294/jg.v17i1.21757>
- Poulidis, A. P., Takemi, T., Iguchi, M., & Renfrew, I. A. (2017). Orographic effects on the transport and deposition of volcanic ash: A case study of Mount Sakurajima, Japan. *Journal of Geophysical Research: Atmospheres*, 122(17), 9332–9350. <https://doi.org/10.1002/2017JD026595>
- Qin, M., P. Cui., Y. Jiang., J. Guo., G. Zhang & M. Ramzan. 2022. Occurance of shallow landslides triggered by increased hydraulic conductivity due to tree roots. *Landslides*. 19:2593-2604. DOI 10.1007/s10346-022-01921-8
- Raharjo, P., & L. Sarmili. 2016. Keterdapatannya Mineral Lempung Smektit Yang Mempunyai Sifat Plastisitas Tinggi Di Perairan Cirebon, Jawa Barat. *Jurnal Geologi Kelautan*, 14(1). <https://doi.org/10.32693/jgk.14.1.2016.339>
- Rahal, N.S & B.A.J. Alhumairi. 2019. Modelling of soil cation exchange capacity for some soil of east gharaf lands from mid-Mesopotamian plain (Wasit Province/Iraq). *International Journal of Environmental Science and Technology*. 16:3183-3192. <https://doi.org/10.1007/s13762-018-1913-6>
- Rebelo, T.R., F.R. Bortolozo., L.M. Parron. 2019. Organic matter content in riparian areas of soil composed of woody vegetation and grass and its effects on pesticide adsorption. *Journal of Recycling of Organic Waste in Agriculture*. 8:67-72. <https://doi.org/10.1007/s40093-018-0229-3>
- Regmi, A.D., K. Yoshida., M.R. Dhital & K. Devkota. 2013. Effect of rock weathering, clay mineralogy and geological structures in the formation of large landslide, a case study from Dumre Besei landslide, Lesser Himalaya Nepal. *Landslide*. 10:1-13. DOI 10.1007/s10346-011-0311-7
- Richer, B., A. Saeidi., M. Boivin & A. Rouleau. 2020. Overview of retrogressive landslide risk analysis in sensitive clay slope. *Geosciences*. 10.279. doi:10.3390/geosciences10080279
- Rinaldi, R., D.S. Bakri & A. Setiawan. 2018. Pengaruh asosiasi jenis tumbuhan terhadap kualitas biji kopi di kawasan pengelolaan hutan lindung Batu Tegi Provinsi Lampung. *Jurnal Hutan Tropis*. 6(3):260-268. ISSN 2337-7771
- Roszkopf, C. M., E. Di Iorio., L. Circelli., C. Colombo & P.P.C. Aucelli. 2020. Assessing spatial variability and erosion susceptibility of soils in hilly agricultural areas in Southern Italy. *International Soil and Water Conservation Research*, 8(4), 354–362. <https://doi.org/10.1016/j.iswcr.2020.09.005>
- Sambodo, A. P., M.A. Setiawan & R.P. Rokhmaningtyas. 2018. The evaluation of modified productivity index method on the transitional volcanic-tropical landscape. *IOP Conference Series: Earth and Environmental Science*, 200(1). <https://doi.org/10.1088/1755-1315/200/1/012011>
- Salazar, O., L. Balboa., K. Peralta., M. Rossi., M. Casanova., Y. Tapia., R. Singh & M. Quemada. 2019. Effect of cover crops on leaching of dissolved organic nitrogen and carbon in a maize-cover crop rotation in Mediterranean Central Chile. *Agricultural Water Management*. 399-406. <https://doi.org/10.1016/j.agwat.2018.07.031>
- Samsir, M.S & C.A. Makarim. 2019. Analisis creep terhadap material pengisi lumpur yang digunakan di kawasan reklamasi. *Jurnal Mitra Teknik Sipil*. 2(1):105-113



- Sandi, R., Rasyidi, E.S., Fikruddin, M. 2020. Gerakan Tanah pada Lokasi Bendungan Karalloe Kabupaten Gowa Provinsi Sulawesi Selatan. *Jurnal Ilmiah Ecosystem.* 20(1):34-40
- Saputra, D.D., A.R. Putrantyo & Z. Kusuma. 2018. Hubungan kandungan bahan organik tanah dengan berat isi, porositas dan laju infiltrasi pada perkebunan salak di Kecamatan Purwosari, Kabupaten Pasuruan. *Jurnal Tanah dan Sumberdaya Lahan.* 5(1):647-654. e-ISSN:2549-9793
- Sartohadi, J., N.A.H.J. Pulungan., M. Nurudin & Wahyudi. 2018. The ecological perspective of landslides at soils with high clay content in the middle Bogowonto Watershed, Central Java, Indonesia. *Hindawi. Applied and Environmental Soil Science.* ID 2648185:1-9. <https://doi.org/10.1155/2018/2648185>
- Schulz, W.H., Smith, J.B., Wang, G., Jiang, Y & Roering, J.J. 2018. Clayey landslide initiation and acceleration strongly modulated by soil swelling. *Geophysical Research Letter.* 45(4):1888-1896. <https://doi.org/10.1002/2017GL076807>
- Schoolman, E. D & J.G. Arbuckle. 2022. Cover crops and specialty crop agriculture: Exploring cover crop use among vegetable and fruit growers in Michigan and Ohio. *Journal of Soil and Water Conservation,* 77(4), 403–417. <https://doi.org/10.2489/jswc.2022.00006>
- Sebastian, L. 2021. Evaluasi dimensi saluran drainase kawasan permukiman Kecamatan Jakabaring Kota Palembang. *Jurnal Teknik Slipil.* 11(1):28-39. ISSN:2089-2942
- Shekofteh, H., F. Ramazani & H. Shirani. 2017. Optimal feature selection for predicting soil CEC: Comparing the hybrid of ant colony organization algorithm and adaptive network-based fuzzy system with multiple linear regression. *Geoderma.* 298:27-34. <http://dx.doi.org/10.1016/j.geoderma.2017.03.010>
- Silalahi, S.M., K.S Lubis & H. Hanum. 2016. Kajian hubungan kadar liat, bahan organik dan kandungan air terhadap indeks plastisitas tanah di Kecamatan Jorlang Hataran Kabupaten Simalungun. *Jurnal Agroekoteknologi.* 4(4):2316-2323.
- Sobirin., F.T.H.R. Sitanala & M. Ramadhan, M. 2017. Analisis potensi dan bahaya bencana longsor menggunakan modifikasi metode indeks storie di Kabupaten Kebumen Jawa Tengah. *8<sup>th</sup> Industrial Research Workshop and National Seminar. Politeknik Negeri Bandung.* 59-64
- Straffelini, E., A. Pijl., S. Otto., E. Marchesini., A. Pitacco & P. Tarolli. 2022. A high resolution physical modeling approach to assess runoff and erosion in vineyards under different soil management. *Soil & Tillage Management.* 105418. <https://doi.org/10.1016/j.still.2022.105418>
- Suleman, S., U.A. Rajamuddin & Isrun. 2016. Penilaian kualitas tanah pada beberapa tipe penggunaan lahan di Kecamatan Sigi Biromaru Kabupaten Sigi. *Jurnal Agrotekbis.* 4(6):712-718. ISSN:2338-3011
- Susanti, P.D & A. Miardini. 2019. Identifikasi karakteristik dan faktor pengaruh pada berbagai tipe longsor. *Agritech.* 39(2):97-107
- Sunarminto, B.H & H. Santosa. 2008. Daya mengembang dan mengerut montmorillonit I: pengaruh intensitas curah-embun terhadap pengelolaan tanah di Kecamatan Tepus dan Playen, Pegunungan Seribu Wonosari- Riset Laboratorium. *Jurnal Agritech.* 28(1):1-8



- Soltani, A., A. Deng., A. Taheri., B.C. O'Kelly. 2022. Intermittent swelling and shrinkage of a highly expansive soil treated with polyacrylamide. *Journal of Rock Mechanics and Geotechnical Engineering.* 252-261
- Subagyono, K., S. Marwanto., U. Kurnia. 2003. *Teknik Konservasi Tanah Secara Vegetatif*. Balai Penelitian Tanah. Departemen Pertanian. ISBN 979-9474-29-9
- Sulastoro, R.I. 2011. Pemantauan gerakan tanah dengan teknologi tepat guna dalam rangka mitigasi bencana tanah longsor di daerah pedesaan (Kasus Tanah Longsor Dusun Guyon). *Journal of Rural and Development.* 11(1):25-35. ISSN:1978-9734
- Surono, 2008. Litostratigrafi dan sedimentasi Formasi Kebo dan Formasi Butak di Pegunungan Baturagung, Jawa Tengah bagian Selatan. *Jurnal Geologi Indonesia.* 3(4):183-193
- Suryani, I. 2014. Kapasitas tukar kation (KTK) berbagai kedalaman tanah pada areal konversi lahan hutan. *Jurnal Agrisistem.* 10(2):99-106. ISSN 1858-4330
- Sutarno. 2012. Studi Kerentanan Gerakan Massa Batuan dan Daerah Rawan Longsor Lahan di Kabupaten Purworejo. *Jurnal Ilmu Tanah dan Agroklimatologi.* 9(2):131-137
- Setyawati, S., Suparmini, M. W. (2016). Geomedia Volume 14 Nomor 2 November 2016. 14 (November), 97–106.
- Tang, X. wu, W. Lin., kang, Y. Zou., J. Liang. xin, & W. Zhao. (2022). Experimental study of the bearing capacity of a drainage pipe pile under vacuum consolidation. *Journal of Zhejiang University: Science A,* 23(8), 639–651. <https://doi.org/10.1631/jzus.A2100585>
- Tejakusuma, I.G. 2018. Rayapan Tanah di Balekambang, Cirawamekar, Kecamatan Cipatat, Kabupaten Bandung Barat, Jawa Barat. *Jurnal Sains dan Teknologi Mitigasi Bencana.* 13(2):96-101
- Tran, T.T.T., H. Hazarika., I.G.B. Indrawan & D. Karnawati. 2018. Prediction of time to soil failure based on creep strength reduction approach. *Geotech Geol Eng.* 36:2749-2760. <https://doi.org/10.1007/s10706-018-0496-9>
- Utami, D.N. 2018. Kajian jenis mineralogi lempung dan implikasinya dengan gerakan tanah. *Jurnal Alami.* 2(2):89-97
- Valle, S.R., J. Dorner., F. Zuniga & D. Dec. 2018. Seasonal dynamics of the physical quality of volcanic ash soil different land uses in Southern Chile. *Soil & Tillage Research.* 182:25-34
- Vanmaercke, M., P. Panagos., T. Vanwalleghem., A. Hayas., S. Foersterf., P. Borelli., M. Rossi., D. Torri., J. Casali., L. Borselli. O. Vigiak. 2021. Measuring, modeling and managing gully erosion at large scales: A state of the art. *Earth-Science Review.* 218. <https://doi.org/10.1016/j.earscirev.2021.103637>
- Verti, M.A., E.D. Mustikarini & T. Lestari. 2021. Diversity of avocado germplasm (*Persea Americana*) in Bangka Island based on morphology character. *Seminar Nasional Penelitian dan Pengabdian pada Masyarakat.* 33-38
- Waeber, J.C., R. Burgmann., E. Chaussard., C. Giannico & A. Ferretti. 2018. Spatiotemporal patterns of precipitation-modulated landslide deformation from independent component analysis of InSAR time series. *Geophysical Research Letters.* 45(4):1878-1887. <https://doi.org/10.1002/2017GL075950>



- Wang, J., Y. Zhang., J. Deng., S. Yu & Y. Zhao. 2021. Long-term gully erosion and its response to human intervention in the tableland region of the Chinese Loess Plateau. *Remote Sensing*. 13. 5053. .  
<https://doi.org/10.3390/rs13245053>
- Wang, J. 2023. Visualizing water seepage dynamics in grotto relics via atom - based representative model. *Heritage Science*, 1–12. <https://doi.org/10.1186/s40494-022-00832-0>
- Wahyuni, S., N. Jafar., H. Anwar & A.S. Munir. 2021. Analisis kestabilan lereng disposisi IPD PQRT pit West menggunakan metode bishopt PT Buma Job Site Lati Kabupaten Berau Kalimantan Timur. *Jurnal Geosapta*. 7(1):1-6
- Wibawa, A. 2015. Pengaruh penambahan limbah gypsum terhadap nilai kuat geser tanah lempung. *Jurnal Fropil*. 3(2):65-71.  
<https://doi.org/10.33019/fropil.v3i2.1214>
- Wida, W.A., A. Maas., J. Sartohadi. 2019. Pedogenesis of Mt. Sumbing Volcanic Ash above the alteration clay layer in the formation of landslide susceptible soils in Bompon Sub-Watershed. *Agricultural Science*. 4(1):15-22.  
[doi.org/10.22146/](https://doi.org/10.22146/)
- Widagdo, A., S. Pramumijoyo & A. Harijoko. 2020. Kontrol struktur geologi terhadap kemunculan formasi nanggulan di daerah Kecamatan Nanggulan Kabupaten Kulon Progo, Yogyakarta. *Jurnal Geosapta*. 6(2):97-101
- Widiyatmoko, W & S. Purwantara. 2016. Identifikasi Gerakan Massa Terhadap Kerusakan Jalan Raya Sukorejo-Weleri Kilometer 6-16 Kabupaten Kendal. *Geomedia*. 14(2):77-85
- Wiqoyah, Q. 2006. Pengaruh kadar kapur, waktu perawatan dan perendaman terhadap kuat dukung tanah lempung. *Dinamika Teknik Sipil*. 6(1):16-24
- Wulandari, D. 2018. Penilaian potensi runtuh tanah klei sensitive pada lokasi longsor lahan di DAS Bompon, Kabupaten Magelang. Skripsi. Jurusan Geografi Lingkungan, Fakultas Geografi, Universitas Gadjah Mada. Yogyakarta
- Xu, H., C. Zhao., X. Wang., S. Chen., S. Shan., T. Chen & X. Qi. 2022. Spatial differentiation of determinants for water conservation dynamics in a dryland mountain. *Journal of Cleaner Production*. 362.  
<https://doi.org/10.1016/j.jclepro.2022.132574>
- Yang, H., P. Luo., J. Wang., C. Mou., L. Mo., Z. Wang., Y. Fu., H. Lin., Y. Yang & L.D. Bhatta. 2015. Ecosystem evapotranspiration as a response to climate and vegetation coverage changes in Northwest Yunnan, China. *Plos One*. 10(8). doi:10.1371/journal.pone.0134795
- Yang, W., J. Fang & J.L. Zeng. 2021. Landslide-lake outburst flood accelerate downstream slope slippage. *Earth Surface Dynamics*.  
<https://doi.org/10.5194/esurf-2021-14>
- Yalcin, A. 2007. The effects of clay on landslide: A case study. *Applied Clay Science*. 38:77-85.
- Yuga, A.P. 2019. Pemanfaatan parameter tanah untuk penilaian kerawanan rayapan tanah di Nanggulan dan Kalibawang, Kulon Progo, Yogyakarta. Skripsi. Departemen Tanah. Fakultas Pertanian. Universitas Gadjah Mada. Yogyakarta



- Yulhendri., Hamdi & M. Ritonga. 2020. Strategi pengembangan usaha masyarakat berbasis kopi untuk konservasi lingkungan. *Suluah Bendang: Jurnal Ilmiah Pengabdian kepada Masyarakat.* 20(2):86-96. DOI: <https://doi.org/10.2403/sb.0470>
- Zhang, Z., T. Wang., S. Wu., H. Tang & C. Liang. 2018. Dynamics characteristic of red clay in a deep-seated landslide, Northwest China: An experiment study. *Engineering Geology.* 239:254-268
- Zhang, Y., K. Gu., J. Li., C. Tang., Z. Shen & B. Shi. 2020. Effect of biochar on desiccation cracking characteristics of clayey soils. *Geoderma.* 364:114182. <https://doi.org/10.1016/j.geoderma.2020.114182>