

DAFTAR PUSTAKA

- Acosta, J.L.G., Vardon, P.J., Hicks, M.A. 2021. Study of Landslide and Soil Structure Interaction Problems Using The Implicit Material Point Method. *Engineering Geology at ScienceDirect*. Nomor 285.
- Adi, W. T., dan Aghastya, A. 2017. Penggunaan Total Station dan Autocad Civil 3D Untuk Perencanaan Grading. *Jurnal Perkeretaapian Indonesia*. Vol 1 no 2 halaman 149-159
- Amri, N. Ali. 2013. Impak Fitting Model Semivariogram pada Perhitungan Range. *Seminar Nasional Kebumihan – VIII*. Yogyakarta : Fakultas Teknologi Mineral UPN Veteran Yogyakarta
- Anwar, S., & Sudadi, U. 2013. *Kimia Tanah*. Bogor: Departemen Ilmu Tanah dan Sumberdaya Lahan, Fakultas Pertanian - Institut Pertanian Bogor
- Arifin, M., Putri, N. D., Sandrawati, A., Harryanto, R. 2018. Pengaruh Posisi Lereng Terhadap Sifat Fisika dan Kimia Tanah Pada Inceptisols di Jatinangor. *Soilrens*. Volume 16 Nomor 2, halaman 37-44
- Badan Nasional Penanggulangan Bencana (BNPB). (2019). Data dan Informasi Bencana Indonesia (DIBI). Diakses dari <http://dibi.go.id/dibi> pada 11 Juli 2021 Pukul 11.20
- Badan Nasional Penanggulangan Bencana Tahun 2018
- Badan Penanggulangan Bencana Daerah Kabupaten Wonosobo Tahun 2021
- Badan Usaha Milik Negara. 2021. *Brantas Abipraya Garap Waduk Tertinggi di Indonesia*. Diakses melalui <https://bumn.go.id/media/news/brantas-abipraya-garap-Waduk-tertinggi-di-indonesia> pada 27 Agu. 21 pukul 01.01
- Baki, Vahiddin Alperen; Ke, Xinyuan; Heath, Andrew; Holley Julianan C.; Terzi, Cemalettin; Sirin, Murat. 2022. The Impact of Mechanochemical Activation on the Phycochemical Properties and pozzolanic reactivity of Kaolinite,

Mucovite, and Montmorillonite. *Cement and Concrete Research, Elsevier*. (162),Halaman 5

Bernard, H. R. 2002. *Research Methods in anthropology: Qualitative and Quantitative Approaches (3rd ed.)*. Walnut Creek, CA: Alta Mira Press.

Bowles, Joseph E., 1991. *Sifat-sifat Fisis dan Geoteknis Tanah (Mekanika Tanah)*. Jakarta: Erlangga.

Bychinsky, V., Charykova, M. dan Omara, R. 2021. Geochemical Modeling of Soil and Technogenic sediment Interaction With Natural Water Using Selector Software (Chaabet-el-Hamra mine, Algeria). *Geochemistry at Science Direct*.

Cascini, L., Gurleo, M., Nocera, S.D., Gulla, G. 2015. A New Old Approach for shallow landslide analysis and Suceptibility Zoning in Fin Grained Weather soil of Southern Italy. *Geomorphology*. Volume 241 Halaman 371-381.

Catani, F., Segoni, S., Falorni, G., 2010. An empirical geomorphology-based approach to the spatial prediction of soil thickness at catchment scale. *Water Resour. Res.* Volume 46, Nomor 5, Halaman 700–712. Diakses melalui <https://doi.org/10.1029/2008WR007450>.

Chen, Peu Yuan. 1997. *Table of Key Lines in X-Ray Powder Diffraction Patterns of Mineral in Clays and Associated Rocks*. Indiana State of Indiana Bloomington.

Chen, S., Mulder, V. L., Martin, M. P., Walter, C., Lacoste, M., Richer-de-Forges, A. C., Saby, N. P. A., Loiseau, T., Hu, B., & Arrouays, D. 2019. Probability mapping of soil thickness by random survival forest at a national scale. *Geoderma*, 344. 184–194.

Conte, E., A. Donato dan A. Troncone. 2014. A Finite Element Approach for the Analysis of Active Slow-moving Landslides. *Landslides*. Volume 11, hal. 723–731.

- Cornforth, D. 2005. *Landslides in practice: investigation, analysis, and remedial/preventative options in soils*. New York: John Wiley & Sons.
<https://doi.org/10.2113/12.1.81>
- Craig, R.F., 1992. *Soil Mechanics*, 5th ed. London : Chapman & Hall.
- Cruden, D. M., & Varnes, D. J. 1996. Landslides Types and Processes. dalam *Landslides : Investigation and Mitigation*.
- Damiano, E., Oliavares, L., Picarelli, L. 2012 Step-Slope Monitoring In Unsaturated Pyroclastic Soils. *Engineering Geology at ScienceDirect*.137-138
- De Vita, P., Agrello, D., & Ambrosino, F. 2005. Landslide susceptibility assessment on pyroclastic ash deposits fall around Mount Somma-Vesuvius: Application of control geophysics for soil thickness. *Journal of Applied Geophysics*. Vol 59 Halaman 126-139.
- Delsiyanti, Widjajanto, D., dan Rajamuddin, U. A. 2016. Sifat Fisik Pada Beberapa Penggunaan Lahan di Desa Oloboju Kabupaten Sigi. *Jurnal Agrotekbis*. Volume 4, Nomor 3, Halaman 227-234
- Departemen Pekerjaan Umum. 2005. *Pedoman Penanganan Tanah Ekspansif untuk Konstruksi Jalan*. Jakarta: Departemen Pekerjaan Umum.
- Detik finance. 2018. Waduk Tertinggi di Indonesia Akan Dibangun di Purworejo. Diakses melalui <https://finance.detik.com/infrastruktur/d-4291694/Waduk-tertinggi-di-indonesia-akan-dibangun-di-purworejo> pada 27 Agustus 21 pukul 04.10 WIB
- Durrotunafisah. 2019. *Identifikasi Karakteristik Tanah Dan Kerawanan Longsor (Studi Kasus Longsor Clapar Teraktivasi Kecamatan Madukara Kabupaten Banjarnegara Jawa Tengah)*. Skripsi. Yogyakarta : Fakultas Geografi, Universitas Gadjah mada.

- Dury, R. 2017. *Progressive Landslide Analysis*. Lulea:Department of Civil, Environmental and Natural Resources Engineering.
- Etikan, I., S.A. Musa, R.S. Alkassim. (2016). Comparison of Convenience Sampling and Purposive Sampling. *American Journal of Theoretical and Applied Statistics tahun 2016;5(1)* hal. 1-4.
- Evans, Hannah, C.Pennington, C. Jordan, C. Foster. 2013. Mapping a Nations Landslides: A Novel Multi-stage Methodology. In Margottini C., P. Canuti, dan K. Sassa (eds). *Landslides Science and Practice Volume 1 Landslide Inventory and Susceptibility and Hazard Zoning*, halaman .21-28.
- Farnsisco D.L.C.V.C., Marfai, M. A., Graciela P.G. 2006. Qualitative Analysis of The San Lorenzo Landslide in The Sant, Arcangelo Region Southern Italy. *Indonesian Journal of Geography*, Volume 38, Nomor 1, halman 84-100.
- Fatiatun, Firdaus, Jumini, Adi, N.P. 2019. Analisis Bencana Tanah Longsor Serta Mitigasinya. *Spektra : Jurnal Kajian Pendidikan Sains*. Volume 5 nomor 2 halaman 113.
- Fernandez, R., Martirena, K.L., Scrivener. 2011. The Origin of The Pozzolan Activity of calcined clay minerals: a comparison between kaolinite, illite, and monmorilnite. *Cem. Concr. Res.* Vol 41 Halaman 113-122
- Finné, M., Kylander, M., Boyd, M., Sundqvist, H., Löwemark, L., 2015. Can XRF scanning of speleothems be used as a non-destructive method to identify paleoflood events in caves. *International Journal Speleol.* Volume 44 Nomor 1 halaman 17–23.
- Ghalih, N Wicaksono. 2018. Karakteristik geomorfologi Longsorlahan Desa Clapar Madukara, Banjarnegara, Jawa Tengah. *Skripsi*. Yogyakarta : Fakultas Geografi.

- Goudie, A. S. 2004. *Encyclopedia of Geomorphology*. *Encyclopedia of Geomorphology*. London: Routledge.
<https://doi.org/10.4324/9780203381137>
- Graham, R., Rossi, A., Hubbert, R. 2010. Rock to Regolith Conversation : Producing Hospitable Substrates For Terrestrial Ecosystems. *GSA Today*. Volume 20 Nomor 2 Halaman 4-9.
- Groenigen, J. W. Van. 2000. The influence of variogram parameters on optimal sampling schemes for mapping by kriging. *Geoderma*. Vol 97, Halaman 223–236.
- Guzzetti, F., Peruccaci, S., Rossi, M., Stark, C.P. 2008. The Rainfall Intensity Duration Control of Shallow Landslide and Debris Flows. *Landslides* . Nomor 5 Halaman 3-17.
- Han, X., Liu, J., Mitra, S., Li, X., Srivastava, P., Guzman, S. M., & Chen, X. 2018. Selection of optimal scales for soil depth prediction on headwater hillslopes: A modeling approach. *Catena*, 163. 257–275.
- Hanke, J.R., Fischer, M.P., and Polya, M.R. 2018. Directional Semivariogram Analysis To Identify And Rank Controls On The Spatial Variability Of Fracture Networks. *Journal of Structural Geology*. Volume 108, page 34-51
- Hardiyatmo, H. C. 2012. *Tanah Longsor dan Erosi Kejadian dan Penanganan*. Gadjah Mada University Press
- Hayati, Nur. tanpa tahun .*Panduan Praktis Analisa XRD (Bulk Powder And Clay Analysis)*.
- Hengl, T., & MacMillan, R. A. 2019. *Predictive Soil Mapping with R*. OpenGeoHub Foundation.

- Hengl, T., Heuvelink, G. B. M., & Rossiter, D. G. 2007. About regression-kriging : From equations to case studies. *Computers & Geosciences*, Vol 33, Halaman 1301–1315.
- Ho, J. Y., Lee, K. T., Chang, T. C., Wang, Z. Y., & Liao, Y. H. 2012. Influences of spatial distribution of soil thickness on shallow landslide prediction. *Engineering Geology*, 124, 38–46.
- Horst-Heinen, T. Z., Dalmolin, R. S. D., Caren., A., dkk. 2021. Soil Depth Prediction By Digital Soil Mapping and Its Impact In Pine Forestry Production in South Brazil. *Forest Ecology and Management at Science Direct*. Volume 488.
- Hungr, O., Leroueil, S., & Picarelli, L. 2014. The Varnes classification of landslide types. *Landslides*, Volum 11 Nomor 2 Halaman 167–194.
- Hungr, O., Leroueil, S., dan Picarelli, L. 2013. The Varnes Classification of Landslide Types, an Update. *Landslide* . Volume 11 halaman 167-194.
- Husain, R. 2015. *Geokimia Mineral Lempung dan Implikasinya Terhadap Gerakan Tanah*. Makasar : Universitas Hasanuddin.
- Iverson, R.M. George, D.L., Allstadt, K., Reid, M.E., Collins, B.D., dkk. 2015. Landslide Mobility And Hazzard Implication of the 2014 Osodisaster. *Earth Planet Science Lett.* 412, Halaman 197-208
- Jamaludin, A., & Adiantoro, D. 2014. Analisis Kerusakan X-Ray Fluorescence (XRF). *PIN Pengelolaan Instalasi Nuklir*, halaman 9-10.
- Jansen, J.H.F., van der Gaast, S.J., Koster, B., Vaars, A.J. 1998. CORTEX, a shipboard XRF scanner for element analyses in split sediment cores. *Mar. Geology*. Nomor 151 Halaman 143–153.
- Jenny, H. (1941). *Factors of Soil Formation: A System of Quantitative Pedology*.

- Joussein, E., Petit, S., Churchman, J., Theng, B., Righi, D., & Delvaux, B. 2005. Halloysite clay minerals — a review. *Clay Minerals*, Vol 40(4), Halaman 383–426.
- Kim, M. S., Onda, Y., Uchida, T., & Kim, J. K. 2016. Effects of soil depth and subsurface flow along the subsurface topography on shallow landslide predictions at the site of a small granitic hillslope. *Geomorphology*, 271. 40–54.
- Kisman, dan Pardiarto, B. 2014. *Karakteristik Geokimia Unsur Tanah Jarang Dalam Endapan Bauksit Di Daerah Sandai Kabupaten Ketapang Provinsi Kalimantan Barat. Makalah Ilmiah*. Bandung : Pusat Sumberdaya Geologi.
- Komite Percepatan Penyediaan Infrastruktur Prioritas. 2016. *Waduk Bener*. Diakses melalui <https://kppip.go.id/proyek-strategis-nasional/p-proyek-Waduk-dan-jaringan-irigasi/Waduk-bener/> pada 27 Agustus 2021 pukul 00.58
- Kurnia, U.F., Agus., A. Adimihardja., A. Dairah., 2006. *Sifat Fisik Tanah dan Metode Analisisnya*. Badan Penelitian dan Pengembangan Pertanian, Departemen Pertanian.
- Lacoste M, Mulder V L, Richer-de-Forges A C, Martin M P, dan Arrouays D. 2016. Evaluating large-extent spatial modeling approaches: A case study for soil depth for France. *Geoderma Regional*. Volume 7, halaman 137–152.
- Lanni, C., Borga, M., Rigon, M., Tarolli, P., 2012. Modelling shallow landslide susceptibility by means of a subsurface flow path connectivity index and estimates of soil depth spatial distribution. *Hydrol. Earth Syst. Sci.* Nomor 16 Halaman 3959–3971.
- Lazaro, B. Baulus. 2015. Halloysite and Kaolinite : Two Clay Minerals With Geological And Technological Importance. *Real Academia de Ciencias*. Volume 70 halaman 1-33

- Leroueil, S., Locat, J., Picarelli, L., Lee, H., Faure, R. 1996. Geotechnical Characterization of Slope Movements. *In : Senneset K (ed) Landslide. Balkena, Rotterdam. Volume 1 Halaman 53-74*
- Malone, B., & Serle, R. 2020. Improvements to the Australian national soil thickness maps using an integrated data mining approach. *Geoderma Journal. Vol 377* (<https://www.sciencedirect.com/science/article/pii/S0016706119328630>)
- Malone, B., Minasny, B., & Mcbratney, A. B. 2017. *Progress in Soil Science : Using R for Digital Soil Mapping*. Switzerlnd : Springer.
- Miles, M. B., A. M. Huberman, dan J. Saldana. 2014. *Qualitative Data Analysis: An Expanded Sourcebook (3rd ed.)*. Thousand Oaks,CA: Sage.
- Moore, D.M. dan Reynold, R.C. 1997. *X-Ray Diffraction and the Identification and Analysis of Clay Mineral*. Oxford:Oxford University Press.
- Nadeau, P.H. dan D.C. Bain. 1986. Composition of Some Smectites and Diagenetic Illite Clays and Implications for Their Origin. *Clays and Clay Minerals, Volume 34 No. 4 tahun 1986*, halaman 455-464.
- Naldo, R.A., 2011. Sifat Fisika Ultisol Limau Manis Tiga Tahun Setelah Pemberian Beberapa Jenis Pupuk Hijau. *Jurnal Agroland*. Fakultas Pertanian. Universitas Andalas
- New York: McGraw-Hill Publ.
- Ningrum, Esya Rahma. 2021. *Penilaian Kerawanan Longsor Menggunakan Permodelan Flow R : Studi Kasus Lereng Waduk Bener Purworejo Jawa Tengah. Skripsi*. Yogyakarta : Fakultas Geografi
- Nusa, F.P. 2020. *Karakterisasi Proses Displacement Dan Material Longsor Kalisari Kecamatan Salaman, Kabupaten Magelang. Skripsi*. Yogyakarta : Fakultas Geografi, Universitas Gadjah Mada

- Palar, H., S. Monintja, A.E. Turangan, A.N. Sarajar. 2013. Pengaruh Pencampuran Tras dan Kapur pada Lempung Ekspansif Terhadap Nilai Daya Dukung. *Jurnal Sipil Statik* Volume 1 Nomor 6 halaman 390-399.
- Patton, M. 1990. *Qualitative Evaluation and Research Methods*. Beverly Hills, CA: Sage.
- Peraturan Presiden Nomor 56 Tahun 2018 mengenai Percepatan Pelaksanaan Proyek Strategis Nasional.
- Petley, D. 2012. Global patterns of loss of life from landslides. *Geology*, 40(10), 927–930. <https://doi.org/10.1130/G33217.1>
- Poppe, L.J., & Dodd, J.E. 1990. Computer-generated templates to convert degrees 2T to interplanar spacing : Clay Min. Soc. *Workshop Lec. Vol 1, Quantittative Mineral Analysis of Clays*. Page 168-171
- Priyono, 2015. *Hubungan Klasifikasi Longsor, Klasifikasi Tanah Rawan Longsor Dan Klasifikasi Tanah Pertanian Rawan Longsor*. Fakultas Pertanian UNISRI Surakarta: GEMA, Th. XXVII/49/Agustus 2014 - Januari 2015
- Priyono, K. D. 2012. Kajian Mineral Lempung pada Kejadian Bencana Longsor di Pegunungan Kulonprogo Daerah Istimewa Yogyakarta. *Forum Geografi*, vol 26(1),Halaman 53-64.
- Putri, E.S., Puspita, N.R., Muhrozi, dan Indrastono. 2016. Hubungan Kuat Geser dengan Plastisitas, Fraksi Tanah dan Mineral Tanah Lempung Daerah Bendungan Gunung Rowo dan Tol Jatilangreh-Krapyak Km 5+525. *Jurnal Karya Teknik Sipil*. Volume 5 No 1 halaman 158-169. (<http://ejournal-s1.undip.ac.id/index.php/jkts>)
- Rahmah, S., Yusran, Umar, H. 2014. Sifat Kimia Tanah Pada Berbagai Tipe Penggunaan Lahan di Desa Bobo Kecamatan Palolo Kabupaten Sigi. *Jurnal Warta Rimba*. Volume 2, Nomor 1, Halaman 88-95

- Ramadhan, M. F. 2019. *Karakterisasi Anatomi Dan Pergerakan Longsor Kalisari Kecamatan Salaman, Kabupaten Magelang. Skripsi*. Yogyakarta : Fakultas Geografi, Universitas Gadjah Mada.
- Reis, S., Bayrak, T., Yalcin, A., Sancar, C., Erduran, M., Atasoy, M., Nisanci.R., dan Ekercin, S. 2009. Determination of landslide risk zones and suitable settlement areas of Rize province by using geographic information technologies. *TUBITAK*, Ankara.
- Reyes, A.G, & Gigenbach, W.F. 1992. Petrology and fluid chemistry of magmatic-hydrothermal systems in the Phillipines, pp. 1341 – 1344
- Rosika, K., Dian, A., & Djoko, K. 2007. Pengujian kemampuan XRF untuk analisis komposisi unsur paduan Zr-Sn-Cr-Fe-Ni. In *Prosiding Seminar Nasional Sains dan Teknologi Nuklir, Pusat Teknologi Nuklir bahan dan radiometri (PTNBR) BATAN, Bandung* (pp. 17-18).
- Samuel-rosa, A., Heuvelink, G. B. M., Vasques, G. M., & Anjos, L. H. C. 2015. Geoderma Do more detailed environmental covariates deliver more accurate soil maps. *Geoderma*, Halaman 243–244, 214–227.
- Saridevi, 2013. *Perbedaan Sifat Biologi tanah Pada Berbagai Tipe Penggunaan Lahan di Tanah Andisol, Inceptisol, dan Vertisol*. Jurnal Agroekoteknologi Tropika Volume 2, Nomor. 4.
- Sartohadi, J., Suratman, J., & Dewi, N. I. S. 2012. *Pengantar Geografi Tanah*. Pustaka Pelajar: Yogyakarta
- Sartohadi, J., Suratman, Jamulya, dan Dewi, N. I. S. 2013. *Pengantar Geografi Tanah*. Yogyakarta : Pustaka Pelajar
- Scarpone C, Schmidt M G, Bulmer C E, dan Knudby A. 2016. Modelling soil thickness in the critical zone for Southern British Columbia. *Geoderma*. Volume 282, halaman 59–69.

- Schaetzl, R. J., & Anderson, S. (2005). *Soils: Genesis and Geomorphology*. New York: Cambridge University Press. Diakses dari www.cambridge.org/9780521812016
- Schmidt, K.M., Roering, J.J., Stock, J.D., Dietrich, W.E., Montgomery, D.R., Shaub, T., 2001. Root cohesion variability and shallow landslide susceptibility in the Oregon Coast Range. *Can. Geotech. Journal*. Nomor 38 Halaman 995–1024.
- Seok Kim, M., Onda, Y., Uchida, T., dan Kwan Kim, J. 2016. Effects of Soil Depth And Subsurface Flow Along The SubSurface Topography n Shallow Landslide Prediction At The Site of a Small Granitic hillslope. *Geomorphology at ScienceDirect*. Nomo 271 Halaman 40-54
- Shangguan, W., Hengl, T., de Jesus, J.M., Yuan, H., Dai, Y., 2017. Mapping the global depth to bedrock for land surface modeling. *J. Adv. Model. Earth Syst.* Volume 9, halaman 65–88. <https://doi.org/10.1002/2016MS000686>
- Suk Kim, M., Onda, Y., Kwan Kim, J., Woo Kim, S. 2015. Effect of topography and soil parameterization which represents soil thickness on shallow slide modeling. *International Quarter Journal*. Vol 384 page 91-106.
- Sumaryono, Wahyudi, D. R., Muslim, D., & Sulaksana, N. 2014. *Gempabumi pemicu longsoran pada endapan piroklastik jatuhnya Studi Kasus : Padang Pariaman , Sumatera Barat , Indonesia*, 220–231
- Surono, S. 2008. Litostratigrafi Dan Sedimentasi Formasi Kebo Dan Formasi Butak Di Pegunungan Baturagung, Jawa Tengah Bagian Selatan. *Indonesian Journal on Geoscience*, 3(4), 183–193
- Suryana, 2006. *Pedoman Umum Budidaya Pertanian di Lahan Pegunungan*. Bogor: Balai Besar Litbang Sumberdaya Lahan Pertanian.
- Sutikno, B. 2007. Genesis Endapan Aluvium Dataran Purworejo Jawa Tengah ; Implikasinya Terhadap Sumber Daya Geologi. *Jurnal Geologi Indonesia*, 2(4), 207–215.

- Talebi, A., Troch, P.A. Uijlenhoet, R. 2008. Stable analytic hillside stability model for complex hillsides. *Hydrologic Process Journal*. Vol 22 Page 546-553
- Titisari, A. D., Zaidini, H., Husna, K., Putra, I.H., dan Indrawan, A. G. B. 2019. Penentuan Zona Kerentanan Longsor Berdasarkan Karakteristik Geologi dan Alterasi Batuan. *Jurnal Pengabdian kepada Masyarakat*. Volume 4 Nomor 2, halaman 141-158.
- Undang-undang Nomor 24 Tahun 2007 mengenai Penanggulangan Bencana
- USDA. 2017. Soil Survey Manual (Issue 18). U.S. Department of Agriculture.
- Utami, D. N. 2018. Kajian Jenis Mineralogi Lempung Dan Implikasinya Dengan Gerakan Tanah. *Jurnal Alami : Jurnal Teknologi Reduksi Risiko Bencana*, Volume 2, Nomor 2, halaman 89. <https://doi.org/10.29122/alami.v2i2.3095> .
- Utami, D. Nursita. 2018. Kajian Jenis Mineralogi Lempung dan Implikasinya dengan Gerakan Tanah. *Jurnal Alami*. Volume 2 no 2 halaman 89-97 (e-ISSN : 2548-8635)
- Uyeturk, C.E., Huvaj, N., Bayraktaroglu, H., dan Huseyinpasaoğlu, M. 2020. Geotechnical Characteristics of Residual Soil In Rainfall-triggered Landslides in Rize, Turkey. *Engineering Geology at ScienceDirect*. Nomor 246.
- Varnes, D.J. 1978. Slope movement types and processes, In: Schuster, R.L. and Krizek, R.J. (eds). *Landslides Analysis and Control*. Transportation 116 Research Board Special Report 176, Washington DC: National Academy Press, hal. 11-33.
- Varnes, D.J., Cruden, D.M., 1996. Landslide Types And Processes, Transportation Research Board. *U.S. National Academy of Sciences, Spesial Report*. Nomor 247 : Halaman 36-75.
- Verruijt, A. (2001). *Soil Mechanics*. Delft:Delft University of Technology.

- Wang, W., Zhao, Y., Zhang, R., Wei, Z., Sun, Q., dan Wu., J. 2021. Regional Soil Thickness Mapping Based On Stratified Sampling Of Optimally Selected Covariates. *Geoderma at Science Direct*. Diakses melalui www.elsevier.com/locate/geoderma
- Wang, X., Jin, Z., Chen, L., Xiao, J., Zhang, F. 2016. High-resolution Xray Fluorescence core scanning of landslide dammed reservoir sediment sequence on th Chinese Loes Plateau : New Insights Into the Formation and geochemical processes of annual freeze. *Geoderma at ScienceDirect*. Nomor 279 Halaman 122-131
- Weil, R.R., & Brady, C.N. 2017. *The Nature and properties of soil, 15th edition*. Global Edition : Pearson
- Wesley, L. 2009. Behaviour and geotechnical properties of residual soils and allophane clays. *Obras y Proyectos*, Vol 6, Halaman 5–10.
- Wicaksono, G. N. 2018. *Karakteristik Geomorfologi Longsor Lahan Desa Clapar, Madukara, Banjarnegara, Jawa Tengah*. Skripsi. Yogyakarta : Fakultas Geografi Universitas Gadjah Mada.
- Widiatmono, K. Dan Siswanto H. 2007. *Stabilisasi Tanah Lempung Dengan Kapur Pertanian (CaCO₃) Di Daerah Rawa Pening Kabupaten Semarang*. Semarang : Jurusan Teknik Sipil Universitas Diponogoro.
- Widodo, A. 2011. *Peranan Geokimia Terhadap Stabilitas Lereng Tnaah Residual Vulkanik Di Daerah Panti Jember Jawa Timur*. Yogyakarta : Universitas Gadjah Mada.
- Wijaya, A. P. 2020. *Karakterisasi Longsor Dan Identifikasi Potensi Longsor Di Sebagian Jalan Magelang-Purworejo*. Skripsi. Yogyakarta : Fakultas Geografi, Universitas gadjah Mada

- Wilson, J., Gallant, J., 2000. *Digital Terrain Analysis*. In: *Wilson, J.P., Gallant, J.C. (Eds.), Terrain Analysis: Principles and Applications*. New York : John Wiley & Sons Inc.
- WP/WLI (International Geotechnical Societies' UNESCO Working Party on World Landslide Inventory). 1993. *Multilingual Landslide Glossary*. BiTech Publishers Ltd.
- Yalcin, Ali. 2007. The Effect Of Clay on Landslide : A Case Study. *Science Direct : Applied Clay Science*. Vol 38, Halaman 77-85
- Yarangga, A.A. 2020. Keterdapatan Alterasi Hidrotermal Pada Daerah Wasegi (SP3) Dan Sekitarnya Disktrik Prafi Kab Manokwari Papua Barat. *Intan Jurnal Penelitian Tambang*. Vol 3 No 1. (<https://jurnal-intan.ac.id/index.php/intan/article/view/57/44>)
- Yi Ho, J. Et al. 2012. The effect of the spatial distribution of soil thickness on the prediction of shallow landslides. *Engineering Geology Journal*. Vol 124 Hal 38-46
- Yuan, L. Y., Feng, L.I.U., Yu-guo, Z., Xiao-dong, S. dan Gan-lin, Z. 2019. An Integrated Method Of Selecting Environmental Covariates for Predictive Soil depth Mapping. *Journal of Integrative Agriculture by Science Direct*. Volume 18 nomor 2 halaman 301-315.