

DAFTAR PUSTAKA

- Abdelsamie, E. A., Abdellatif, M. A., Hassan, F. O., El Baroudy, A. A., Mohamed, E. S., Kucher, D. E., & Shokr, M. S. (2023). Integration of RUSLE Model, Remote Sensing and GIS Techniques for Assessing Soil Erosion Hazards in Arid Zones. *Agriculture*, 13(1). <https://doi.org/10.3390/agriculture13010035>
- Abdillah1, M. H., & Aldi, M. (2020). Aplikasi limbah padat karet remah pada tanah Podsolik Merah Kuning terhadap ketersediaan hara makro dan perbaikan sifat fisika tanah. *EnviroScienceae*, 16(2).
- Abdu, A., Laekemariam, F., Gidago, G., & Getaneh, L. (2023). Explaining the Soil Quality Using Different Assessment Techniques. *Applied and Environmental Soil Science*, 2023, 1–15. <https://doi.org/10.1155/2023/6699154>
- Abdulqadir, A. S., Ardo, A. U., & Ardo, A. U. (2025). Changes in some soil physico-chemical properties of lithosols in Nigeria. *International Journal of Progressive Sciences and Technologies*. <https://doi.org/http://dx.doi.org/10.52155/ijpsat.v14.2.876>
- Adeyeri, O. E., Folorunsho, A. H., Adeliyi, T. E., Ayegbusi, K. I., Akinsanola, A. A., Ndehedehe, C. E., Ahmed, N., & Babalola, T. E. (2024). Climate change is intensifying rainfall erosivity and soil erosion in West Africa. *Science of The Total Environment*, 955, 177174. <https://doi.org/10.1016/j.scitotenv.2024.177174>
- Aisy, R., Sukmono, A., & Firdaus, H. S. (2023). Analisis Perubahan Laju Erosi Pada Sub Das Keduang Tahun 2016 – 2021 Dengan Metode Universal Soil Loss Equation (Usle). *Jurnal Geodesi Undip*, 12(April), 111–120. https://ejournal3.undip.ac.id/index.php/geodesi/article/download/38065/29648?utm_source
- Aisiyiah, G. N., Andawayanti, U., & Suhartanto, E. (2025). Pendugaan Laju Erosi dan Sedimen serta Perencanaan Bangunan Pengendali Sedimen di DAS Guritwesi Kabupaten Pasuruan. *Jurnal Teknologi Dan Rekayasa Sumber Daya Air*. <https://doi.org/10.21776/ub.jtresda.2025.005.02.085>
- Aldreess, A., El-pateh, S. J., Dan'azumi, S., & Abba, S. I. (2024). Spatio-temporal soil loss modelling using RUSLE and sediment delivery into a reservoir in a semi-arid region of northern Nigeria. *Heliyon*, 10(20), e38887. <https://doi.org/https://doi.org/10.1016/j.heliyon.2024.e38887>
- Alfianto, A., & Cecilia, S. (2020). Pemodelan Potensi Erosi Dan Sedimentasi Hulu Danau Limboto Dengan Watem/Sedem. *Jurnal Teknik Hidraulik*, 11(2), 67–82. <https://doi.org/10.32679/jth.v11i2.613>
- Amaro, F. F., Vitri Indrawati, U. S. Y., & Agustine, L. (2024). Uji Status Hara Npk Tanah Aluvial Pada Kebun Jambu Kristal (Psidium Guajava) Di Desa Rasau Jaya Tiga Kabupaten Kuburaya. *Jurnal Sains Pertanian Equator*, 13(2), 772. <https://doi.org/10.26418/jspe.v13i2.74249>
- Anda, M., & Dahlgren, R. A. (2020). Mineralogical and surface charge characteristics of Andosols experiencing long-term, land-use change in West

- Java, Indonesia. *Soil Science and Plant Nutrition*, 66(5), 702–713. <https://doi.org/10.1080/00380768.2020.1820758>
- Andriyani, I., & Fadila, Y. Z. (2024). The Influence of Soil Characteristic Changes on Erosion Rates Based on the Universal Soil Loss Equation (USLE) Method. *Jurnal Teknik Pertanian Lampung*. <https://jurnal.fp.unila.ac.id/index.php/JTP/article/download/6221/pdf/29247>
- Anggraini, M. (2010). Manfaat penginderaan jauh dan sistem informasi geografis dalam memperbaiki model erosi berbasis vektor. 4.
- Apritaputra, R. W., Ussy Andawayanti, & Rahmah Dara Lufira. (2025). Strategi Pengendalian Sedimen yang Efektif di Daerah Aliran Sungai Mangakang, Kota Semarang. *Jurnal Teknologi Dan Rekayasa Sumber Daya Air*, 5(2), 1288–1295. <https://doi.org/10.21776/ub.jtresda.2025.005.02.122>
- Aqidah, N., Gawing, E. S., & Jaya, N. A. (2025). Optimasi Penggunaan Lahan di Sub DAS Jenelata melalui Analisis Erosi dan Indeks Kesuburan Tanah. *Dewantara Journal of Technology*. <https://jurnal.atidewantara.ac.id/index.php/djtech/article/view/269>
- Arifin, M., Devnita, R., Anda, M., Goenadi, D. H., & Nugraha, A. (2022). Characteristics of Andisols Developed from Andesitic and Basaltic Volcanic Ash in Different Agro-Climatic Zones. *Soil Systems*, 6(4), 78. <https://doi.org/10.3390/soilsystems6040078>
- Ariyani, D. (2017). Variabilitas Curah Hujan dan Suhu Udara serta Pengaruhnya Terhadap Neraca Air Irigasi di Daerah Aliran Sungai Ciliwung. *Jurnal Irigasi*. https://www.researchgate.net/profile/Dwi-Ariyani/publication/323965595_Variabilitas_Curah_Hujan_dan_Suhu_Udara_serta_Pengaruhnya_Terhadap_Neraca_Air_Irigasi_di_Daerah_Aliran_Sungai_Ciliwung/links/5abb1a4ba6fdcc7164708ea4/Variabilitas-Curah-Hujan-dan-Suhu-
- Ariyanti, O., Setiawan, C., & A'Rachman, F. R. (2022). Evaluasi kesesuaian lahan termasuk tanah hidromorfik. *Spatial Journal UNJ*.
- Arsyad, S. (2010a). *Konservasi Air dan Tanah*. IPB Press.
- Arsyad, S. (2010b). *Konservasi Tanah dan Air*. In Institut Pertanian Bogor (Edisi Kedu). IPB Press. <http://repository.ipb.ac.id/handle/123456789/42667>
- Ascencio-Sanchez, M., Padilla-Castro, C., Riveros-Lizana, C., Hermoza-Espezúa, R. M., Atalluz-Ganoza, D., & Solórzano-Acosta, R. (2025). Impacts of Land Use on Soil Erosion: RUSLE Analysis in a Peruvian Amazon Sub-Basin (Neshuya, Ucayali). *Geosciences*, 15(1), 15.
- Astuti, L. D., Handayani, W., & Prasetyo, L. B. (2021). Analisis spasial risiko erosi pada DAS Cimanuk Hulu sebagai strategi konservasi lahan. *Jurnal Ilmu Lingkungan*, 19(1), 45–56. <https://doi.org/10.14710/jil.19.1.45-56>
- Avilés-Junco, C., Prado-Pano, B., Mora-Palomino, L., Velázquez, A., Abbruzzini, T. F., & Siebe, C. (2025). Integrated multiscale assessment of andosol degradation after conversion from grasslands to agriculture. *CATENA*, 250, 108731. <https://doi.org/https://doi.org/10.1016/j.catena.2025.108731>

- Ayalew, D. A., Deumlich, D., Šarapatka, B., & Doktor, D. (2020). Quantifying the Sensitivity of NDVI-Based C Factor Estimation and Potential Soil Erosion Prediction using Spaceborne Earth Observation Data. *Remote Sensing*, 12(7). <https://doi.org/10.3390/rs12071136>
- Aytop, H. (2025). Reducing the Average P Factor Value in Sloping Land Through Scenarios that Incorporate Terracing and Contour Farming Practices. *Soil Studies*, 14(1), 34–38. <https://doi.org/10.21657/soilst.1724341>
- Badan Pusat Statistik. (2024a). Kabupaten Garut demografi 2024.
- Badan Pusat Statistik. (2024b). Kabupaten Majalengka demografi 2024.
- Badan Pusat Statistik. (2024c). Kabupaten Sumedang demografi 2024.
- Badavath, N., Sahoo, S., & Samal, R. (2024). Unveiling Meghalaya topography: slope length gradient (LS) factor estimation for insightful soil erosion evaluation. *Journal of Engineering and Applied Science*, 71(1), 174. <https://doi.org/10.1186/s44147-024-00508-5>
- Bai, Y., & Cui, H. (2021). An improved vegetation cover and management factor for RUSLE model in prediction of soil erosion. *Environmental Science and Pollution Research*, 28(17), 21132–21144. <https://doi.org/10.1007/s11356-020-11820-x>
- Bakhtiar. (2020). Kajian laju erosi dan sedimentasi pada daerah tangkapan Waduk Jatigede. *Jurnal Techno-Socio Ekonomika*, 6(1), 65–74. <https://repository.usbypkp.ac.id/317/>
- Balai Besar Wilayah Sungai Cimanuk Cisanggarung. (2024). Kerangka Acuan Kerja (KAK) DED Bangunan Pengendali Sedimen Waduk Jatigede.
- Bappenas. (2012). Analisa Perubahan Penggunaan Lahan Di Ekosistem Das Dalam Menunjang Ketahanan Air Dan Ketahanan Pangan.
- Barchia, M. F., Sulistyo, B., Putri, E. L., & Herman, W. (2023). Spatial Prediction of Soil Erodibility Indices of the Sensitive Landscape of Bengkulu Watershed, Indonesia. *International Journal of Environmental Science and Development*, 14(3), 190–194. <https://www.ijesd.org/show-186-1990-1.html>
- Bircher, P., Liniger, H. P., Kupferschmied, P., & Prasuhn, V. (2021). Tools for USLE-CP-factor calculation and actual erosion risk on field block level for Switzerland. *MethodsX*, 8, 101569. <https://doi.org/https://doi.org/10.1016/j.mex.2021.101569>
- BMKG Stasiun Klimatologi Jatinangor. (2023). Data Curah Hujan Wilayah Kabupaten Sumedang Tahun 2022. Badan Meteorologi Klimatologi dan Geofisika.
- Cahyono, B. K., Hakim, L., Waljiyanto, & Adhi, A. D. (2017). Perhitungan kecepatan sedimentasi melalui pendekatan usle dan pengukuran kandungan tanah dalam air sungai yang masuk ke dalam waduk sermo. 1(1), 8–23.
- Cantik, B. K. P., Ramon Putra, Elenora Gita Alamanda Sapan, Djoko Legono, & Kisindi Nur Afifah. (2023). Assessment of Soil Loss Using RUSLE Method in Mrica Reservoir Catchment, Central Java, Indonesia. *LIMNOTEK Perairan Darat Tropis Di Indonesia*. <https://doi.org/10.55981/limnotek.2023.2210>

- Cao, X., Cui, Q., Li, D., Liu, Y., Liu, K., & Li, Z. (2025). Characteristics of Soil Microbial Community Structure in Different Land Use Types of the Huanghe Alluvial Plain. *Microorganisms*, 13(2), 273. <https://doi.org/10.3390/microorganisms13020273>
- Cardoso, D. P., Silva, E. M., Avanzi, J. C., Muniz, J. A., Ferreira, D. F., Silva, M. L. N., Acuña-Guzman, S. F., & Curi, N. (2020). RainfallErosivityFactor: An R package for rainfall erosivity (R-factor) determination. *CATENA*, 189, 104509. <https://doi.org/https://doi.org/10.1016/j.catena.2020.104509>
- Chen, H., Fang, S., Lin, G., Shangguan, Y., Cao, F., & Chen, Z. (2025). Spatial Distribution Characteristics of Soil Nutrients in the Ferralic Cambisols Watershed. *Nitrogen*, 6(3), 77. <https://doi.org/10.3390/nitrogen6030077>
- Chen, S., Huang, Y., Yan, M., Han, Y., Wang, K., Chen, Z., Ruan, D., Yu, Y., & Tu, Z. (2024). Differential Water Conservation Capacity in Broadleaved and Mixed Forest Restoration in Latosol Soil-Eroded Region, Hainan Province, China. *Plants*, 13(5). <https://doi.org/10.3390/plants13050694>
- Chen, Y., Xu, M., Wang, Z., Chen, W., & Lai, C. (2020). Reexamination of the Xie model and spatiotemporal variability in rainfall erosivity in mainland China from 1960 to 2018. *CATENA*, 195, 104837. <https://doi.org/https://doi.org/10.1016/j.catena.2020.104837>
- D'Ettorre, U. S., Liso, I. S., Parisi, V., & Parise, M. (2024). Desertification Assessment Using the Modified Mediterranean Desertification and Land Use Model in a Karst Plateau. *Geosciences*, 14(12), 320. <https://doi.org/10.3390/geosciences14120320>
- Damoza, G. (2015). Kajian Faktor Penyebab Erosi Di Daerah Aliran Sungai Cisadane Hulu, Lido, Kabupaten Bogor, Jawa Barat. https://repository.ub.ac.id/130204/1/GHILMAN_DAMOZA_105040200111076.pdf
- Danniswaria, D., Besilaa, Q. A., Fitria, R., & Fauzia, R. (2024). Penilaian potensi pemanfaatan lahan – Tanah Latosol Indonesia. *AGRITROP*.
- Dawoud, O., Eljamassi, A., & Abunada, Z. (2023). Mapping and Quantification of Soil Erosion and Sediment Delivery in Poorly Developed Urban Areas: A Case Study. *Sustainability*, 15(18), 13683. <https://doi.org/10.3390/su151813683>
- Delgado, D., Sadaoui, M., Ludwig, W., Méndez, W., Ortiz-Hernández, E., & Farfán-Intriago, P. (2025). Assessment of soil erosion by RUSLE in the Ecuadorian basins (2001–2020) based on GIS and high-resolution satellite data: Main drivers and changes on soil erosion. *Geomorphology*, 469, 109515. <https://doi.org/10.1016/j.geomorph.2024.109515>
- Detrina, I., & Karimi, S. (2019). Literature Study : Managing Catchments For. 13(1), 41–48.
- Dewan Sumber Daya Air Nasional. (2021). Pengendalian Erosi dan Sedimentasi untuk Pelestarian Fungsi Waduk.
- Doank, H., Setiaji, B., & Wijaya, A. (2024). Evaluasi efektivitas bangunan pengendali sedimen (check dam) dalam menekan laju sedimentasi pada Waduk Jatigede. *Jurnal Akselerasi*.

<https://jurnal.unsil.ac.id/index.php/akselerasi/article/view/11733>

- Dogiso, E., Haile, W., Yoseph, T., & Lemma, B. (2025). Effects of different land use types on soil characteristics and surface acidity in Sidama Region, Southern Ethiopia. *Agrosystems, Geosciences & Environment*, 8(3). <https://doi.org/10.1002/agg2.70194>
- Doulabian, S., Shadmehri Toosi, A., Humberto Calbimonte, G., Ghasemi Tousi, E., & Alaghmand, S. (2021). Projected climate change impacts on soil erosion over Iran. *Journal of Hydrology*, 598, 126432. <https://doi.org/10.1016/j.jhydrol.2021.126432>
- Durigon, V. L., Carvalho, D. F., Antunes, M. A. H., Oliveira, P. T. S., & Fernandes, M. M. (2014). NDVI time series for monitoring RUSLE cover management factor in a tropical watershed. *International Journal of Remote Sensing*, 35(2), 441–453. <https://doi.org/10.1080/01431161.2013.871081>
- Efeno, L. L. E., Primus Azinwi Tamfuh, Kome, G. K., Ibrahim, A., Enang, R. K., & Wouatong, A. L. S. (2025). Soil characteristics, taxonomy and land suitability of Rhodic Eutric Nitisol units. *African Journal of Agricultural Research*. <https://doi.org/10.5897/AJAR2023.16856>
- Efeno, L. L. E., Tamfuh, P. A., Kome, G. K., Ibrahim, A., Enang, R. K., & Wouatong, A. L. S. (2025). Soil Characteristics, Taxonomy and land suitability of a lateritic Mantle for rain-fed maize (*Zea mays*) Agriculture in the Cameroon Western Highlands. *African Journal of Agricultural Research*, 21(6), 147–161. <https://doi.org/10.5897/AJAR2023.16856>
- Egli, M., den Boer, A., Rowley, M. C., Tikhomirov, D., Mohammadi, M., & Raimondi, S. (2026). Soil redistribution, weathering and soil organic carbon dynamics in a Mediterranean landscape. *CATENA*, 264, 109781. <https://doi.org/10.1016/j.catena.2025.109781>
- Ekeru, D., Haile, W., & Lelago, A. (2022). Effects of different land use types on soil physico-chemical properties in Wolaita Zone, Ethiopia. *Polish Journal of Soil Science*, 55(1), 19–35. <https://doi.org/10.17951/PJSS/2022.55.1.19-35>
- Enggalmulia, S. H., & Aisyah. (2024). Studi komparatif melalui analisis kesuburan tanah pada jenis tanah Andosol, Latosol dan Podsolik di Kabupaten Bogor. *Jurnal Agriment*, 9(1). <https://doi.org/https://doi.org/10.51967/jurnalagriment.v9i1.3067>
- Erwinda, E., Muslim, R. Q., Pratamaningsih, M. M., Hati, D. P., Kricella, P., Suryani, E., & Susilawati, H. L. (2025). The Linkage of Soil pH, Phosphorus Availability, and Exchangeable Aluminum in Andisol and Recommendations for Soil Improvement. *Jurnal Ilmu Pertanian Indonesia*, 30(3), 464–472. <https://doi.org/10.18343/jipi.30.3.464>
- ESRI. (2021). ArcGIS Desktop: Release 10.8. Environmental Systems Research Institute. <https://www.esri.com>
- Estuninggusti, G., Hayati, R., & Arief, F. B. (2025). Pengaruh Persentase Bahan Organik Dan Tanah Terhadap Serapan Hara N, P, K Dan Hasil Tanaman Jagung (*Zea Mays* L.) Di Tanah Aluvial. *Pedontropika: Jurnal Ilmu Tanah Dan Sumber Daya Lahan*, 11(2), 60–68.

<https://doi.org/10.26418/pedontropika.v11i2.87879>

- Fadlyla, M. R., Rohmiyati, S. M., & Suryanti, S. (2025). Pengaruh dosis biochar pada tanah Latosol dan Regosol terhadap pertumbuhan bibit kelapa sawit. *AGROFORETECH*, 3(2).
- Fajeriana, N., & Risal, D. (2022). Peningkatan Pemahaman Tentang Potensi Erosi: Erosivitas dan Erodibilitas Dengan Simulasi Hujan Pada Topografi dan Tutupan Lahan yang Berbeda. <https://ejournal.um-sorong.ac.id/index.php/pjcs/article/download/1687/1282/7301>
- Fenta, A. A., Tsunekawa, A., Haregeweyn, N., Poesen, J., Tsubo, M., Borrelli, P., Panagos, P., Vanmaercke, M., Broeckx, J., Yasuda, H., Kawai, T., & Kurosaki, Y. (2020). Land susceptibility to water and wind erosion risks in the East Africa region. *Science of the Total Environment*, 703, 135016. <https://doi.org/10.1016/j.scitotenv.2019.135016>
- Fernández, G., Merchán, L., & Sánchez, J. Á. (2025). Spatial Representation of Soil Erosion and Vegetation Affected by a Forest Fire in the Sierra de Francia (Spain) Using RUSLE and NDVI. *Land*, 14(4), 793. <https://doi.org/10.3390/land14040793>
- Fiandra, F., & Wardono, H. (2022). Kajian Ketersediaan Dan Kebutuhan Air Baku Kabupaten Mesuji. *Jurnal Rekayasa Lampung*, 1(1). <https://doi.org/10.23960/jrl.v1i1.5>
- Filimonenko, E. A., Samokhina, N. P., Kurganova, I. N., de Gerenyu, V. O. L., Uporova, M. A., Arbuzova, E. A., Sokolova, L. G., Zorina, S. Y., Dorofeev, N. V., & Kuzyakov, Y. V. (2025). Bioenergetic Stability of Organic Matter in Gray Soil (Haplic Luvisol) under Forest and Grassland. *Moscow University Soil Science Bulletin*, 80(2), 181–189. <https://doi.org/10.3103/S014768742570005X>
- Fitri, M. A., Syahriyah, F. A., & Azizah, Z. (2023). Nanosilica Extraction from Grumusol Soil. *Journal of Research and Technology*, 9(1), 61–66. <https://doi.org/10.55732/jrt.v9i1.964>
- Gawas, R., Kerkar, P., & Sawant, S. (2025). Spatial analysis of soil erosion vulnerability in the Mandovi River watershed, India, using RUSLE and geospatial techniques. *Journal of Degraded and Mining Lands Management*, 12(5), 8535–8545. <https://doi.org/10.15243/jdmlm.2025.125.8535>
- Gayo, A. A. P. (2022). Karakterisasi morfologi dan klasifikasi tanah aluvial. *Jurnal Ilmiah Mahasiswa Pertanian*.
- Gezahegn, A., Selassie, Y. G., Agegnehu, G., Addisu, S., Mihretie, F. A., Kohira, Y., Lewoyehu, M., & Sato, S. (2025). Synergistic effects of aquatic weed biochar and inorganic fertilizer on soil properties, maize yield, and nitrogen use efficiency on Nitisols of Northwestern Ethiopian Highlands. *Journal of Agriculture and Food Research*, 21, 101939. <https://doi.org/10.1016/j.jafr.2025.101939>
- Ghosh, J., Das, S., Ghosh, S., Midya, K., Das, S., & Mishra, V. N. (2025). Soil erosion vulnerability analysis of Damodar River Basin, India using Revised Universal Soil Loss Equation (RUSLE) in Google Earth Engine (GEE).

- Discover Geoscience, 3(1), 79. <https://doi.org/10.1007/s44288-025-00191-w>
- Gonzalez Rodriguez, L., McCallum, A., Kent, D., Rathnayaka, C., & Fairweather, H. (2023). A review of sedimentation rates in freshwater reservoirs: recent changes and causative factors. *Aquatic Sciences*, 85(2), 1–19. <https://doi.org/10.1007/s00027-023-00960-0>
- Gunawan, J., Hazriani, R., & Mahardika, R. Y. (2020). Buku Ajar Morfologi dan Klasifikasi Tanah. Fakultas Pertanian Universitas Tanjungpura.
- Gunawan, M. A., Azmi, D., & Nusantara, D. (2025). KUNCIR HULU KABUPATEN NGANJUK MENGGUNAKAN SOFTWARE HEC-RAS. 03(April), 103–111.
- Guo, G., Ying Pan, Kuai, J., Dai, Q., Zhu, Y., Xu, Y., Jia, X., Zeng, G., & Lin, J. (2023). A more accurate approach to estimate the C-factor of RUSLE using remote-sensing data and vegetation indices. *Journal of Environmental Management*.
- Gupta, S., Borrelli, P., Panagos, P., & Alewell, C. (2024). An advanced global soil erodibility (K) assessment including the effects of saturated hydraulic conductivity. *Science of The Total Environment*, 908, 168249. <https://doi.org/https://doi.org/10.1016/j.scitotenv.2023.168249>
- Gwapedza, D., Hughes, D. A., Slaughter, A. R., & Mantel, S. K. (2021). Temporal Influences of Vegetation Cover (C) Dynamism on MUSLE Sediment Yield Estimates: NDVI Evaluation. *Water*, 13(19). <https://doi.org/10.3390/w13192707>
- Hag Husein, H., Bäumler, R., Lucke, B., & Sahwan, W. (2024). Black Soils in the Eastern Mediterranean: Genesis and Properties. *Geographies*, 4(1), 168–181. <https://doi.org/10.3390/geographies4010011>
- Haile, G., Berihun, H., Abera, H., Agegnehu, G., & Lemenih, M. (2023). Soil Properties, Crop Yield, and Economic Return in Response to Lime Application on Acidic Nitisols of Southern Highlands of Ethiopia. *International Journal of Agronomy*, 2023, 1–13. <https://doi.org/10.1155/2023/6105725>
- Hamzah, Maarif, M. S., Marimin, & Riani, E. (2016). Status Mutu Air Waduk Jatiluhur Dan Ancaman Terhadap Proses Bisnis Vital The Water Quality Status Of Jatiluhur Reservoir And Threats. (CI), 47–60.
- Hartawan, M. B., & Suhartanto, E. (2021). Analisa Erosi dan Sedimentasi Berbasis SIG pada DAS Way Rarem. 1(1). <https://doi.org/10.20473/jovin.v1i1.19873>
- Hayyudin, E. P., & Hatmoko, W. (2022). Studi pengaruh perubahan tata guna lahan terhadap sisa usia guna Waduk Jatigede menggunakan USLE dan SDR. In *Prosiding FTSP Series*. <https://eproceeding.itenas.ac.id/index.php/ftsp/article/view/788>
- Herawati, A., Sutarno, S., Mujiyo, M., & Mahendra, Y. S. (2022). Evaluasi Tingkat Bahaya Erosi Beberapa Penggunaan Lahan di Kecamatan Sidoharjo, Wonogiri, Jawa Tengah dengan Metode USLE (Universal Soil Loss Equation). *Jurnal Pedotropika: Jurnal Ilmu Tanah Dan Sumber Daya Lahan*, 8(2), 36–49.

- Herawati, T. (2010). Analisis Spasial Tingkat Bahaya Erosi Di Wilayah Das Cisadane Kabupaten Bogor. Pusat Litbang Hutan Dan Konservasi Alam.
- Herdiansyah, G., Arifin, M., Suriadikusumah, A., & Herawati, A. (2024). Assessment of Andisol characteristics for the development of potato crops in Pangalengan. *JOURNAL OF TROPICAL SOILS*, 30(1), 45–52. <https://doi.org/10.5400/jts.2025.v30i1.45-52>
- Igirisa, Y., Yunginger, R., Patuti, I. M., & Supu, I. (2025). Analisis Pengeboran Sedimen Vertikal Danau Limboto di Sekitar Pentadio Resort , Gorontalz. 5(01), 13–21.
- Ilham Armi, Nasyahardian, Driptufani, D. M., Fajrin, & Defwalidi. (2025). Identifikasi Jenis Tanah Untuk Menentukan Potensi Kekeringan Di Kabupaten Pesisir Selatan. *Ensiklopedia of Journal*.
- Imawan, R., & Pinem, A. P. R. (2024). Pemetaan Laju Erosi Menggunakan Metode RUSLE dan Google Earth Engine Pada DAS Serayu. *Jurnal JTIK (Jurnal Teknologi Informasi Dan Komunikasi)*, 8(3), 726–733. <https://doi.org/10.35870/jtik.v8i3.1938>
- International Union of Soil Sciences. (2025). IUSS Alert 236: World Soil of the Year – Gleysol.
- Javanda Pisceca Markasabana, F., Ningrum, E., & Himayah, S. (2025). Evaluasi Kesesuaian Lahan Untuk Permukiman Di Kecamatan Cimenyan Kabupaten Bandung Menggunakan Sistem Informasi Geografis. *Jurnal Sains Geografi*, 3(1). <https://doi.org/10.21009/jsg.v3.i1.07>
- Jenson, S. K., & Domingue, J. O. (1988). Extracting topographic structure from digital elevation data for geographic information system analysis. *Photogrammetric Engineering and Remote Sensing*, 54(11), 1593–1600.
- Jordan, R. A., Santos, R. C., Freitas, R. L., Motomiya, A. V. de A., Geisenhoff, L. O., Sanches, A. C., Ávalo, H., Mesquita, M., Ferreira, M. B., Silva, P. C., Sanches, Í. S., Sanches, É. S., Da Silva, J. L. B., & Silva, M. V. da. (2023). Thermal Properties and Temporal Dynamics of Red Latosol (Oxisol) in Sustainable Agriculture and Environmental Conservation. *Resources*, 12(9), 104. <https://doi.org/10.3390/resources12090104>
- Jumardin, Rizal, A. S., Minarti, Thariq, A. M., Turayni, N., & Wahyullah. (2023). Identifikasi unsur tanah litosol dengan metode XRF. *Jurnal Pendidikan Fisika Dan Terapannya*.
- June A. Putinella. (2014). Perbaikan Fisik Tanah Kambisol Akibat Pemberian Bokashi Ela Sagu Dan Pupuk Abg (Amazing Bio Growth) Bunga-Buah. *Universitas Pattimura Journal*.
- Kementrian PUPR. (2019). Direktorat Jenderal Sumber Daya Air.
- Kercheva, M., Paparkova, T., Dimitrov, E., Doneva, K., Nedyalkova, K., Perfanova, J., Sechkova, R., Velizarova, E., & Glushkova, M. (2025). Soil Structure Characteristics in Three Mountainous Regions in Bulgaria Under Different Land Uses. *Forests*, 16(7), 1065. <https://doi.org/10.3390/f16071065>
- Khan, S. (2024). A Technical Review on Reservoir Sedimentation and Their

- Mitigation Strategies. *AUIQ Technical Engineering Science*, 1(1), Article 8. <https://doi.org/10.70645/3078-3437.1007>
- Khusnayain, A., Yusriz, A., & Al-Farezzy, R. (2025). Pengaruh Kondisi Topografi, Aksesibilitas dan Sumber Daya terhadap Aktivitas Ekonomi di Pasar Buah Payakumbuh. *Jurnal Pendidikan Sosial Dan Humaniora*. <https://publisherqu.com/index.php/pediaqu/article/download/2417/2133>
- Knežević, M., Topalović, A., Fušić, B., & Životić, L. (2025). Soil Types Properties and Distribution. In *Springer Nature* (pp. 117–196). https://doi.org/10.1007/978-3-031-82919-2_5
- Kodoatie, R. J. (2020). The Effect of Watershed Condition Change to River Discharge: Case Study Jatigede Reservoir Catchment Area. *Media Komunikasi Teknik Sipil*, 26(1). <https://ejournal.undip.ac.id/index.php/mkts/article/view/28989>
- Krepski, T., Sługocki, Ł., Goździk, I., Humiczewski, M., Popko, R., & Czerniawski, R. (2024). Spatial Distribution Patterns of Zooplankton and Macroinvertebrates in a Small River under Strong Anthropogenic Pressure. *Water (Switzerland)*, 16(2). <https://doi.org/10.3390/w16020262>
- Kurniawan, A., Setyorini, T., & Kautsar, V. (2023). Influence of green manure (*Leucaena leucocephala*) dosages on eggplant (*Solanum melongena*) growth and yield across diverse soil types. *Jurnal Ilmiah Pertanian*, 20(3). <https://doi.org/10.31849/jip.v20i3.13547>
- Kusumandari, A., Widiyatno, Marsono, D., Sabarnurdin, S., Gunawan, T., & Nugroho, P. (2013). Vegetation Clustering in Relation to Erosion Control of Ngrancah Sub Watershed, Java, Indonesia. *Procedia Environmental Sciences*, 17, 205–210. <https://doi.org/https://doi.org/10.1016/j.proenv.2013.02.030>
- Lavrishchev, A., Litvinovich, A., Abakumov, E., Kimeklis, A., Gladkov, G., Andronov, E., & Polyakov, V. (2024). Soil Microbiome of Abandoned Plaggic Podzol of Different-Aged Fallow Lands and Native Podzol in South Taiga (Leningrad Region). *Agronomy*, 14(3), 429. <https://doi.org/10.3390/agronomy14030429>
- Li, Y., Hu, Y., Zhao, J., & Zhang, J. (2025). Water erosion control through vegetation restoration: Mechanisms and contributions of vegetation components in *Robinia Pseudoacacia* forests. *CATENA*, 255, 109066. <https://doi.org/https://doi.org/10.1016/j.catena.2025.109066>
- Liu, R., Yu, X., Cai, Q., Sun, L., Fang, H., Jia, G., & He, J. (2020). Research progress in the effect of slope length on slope erosion, transportation and deposition processes. *Science of Soil and Water Conservation*, 18(6), 140–146. <https://doi.org/10.16843/j.sswc.2020.06.017>
- Liu, Y., Zhao, W., Liu, Y., & Pereira, P. (2020). Global rainfall erosivity changes between 1980 and 2017 based on an erosivity model using daily precipitation data. *CATENA*, 194, 104768. <https://doi.org/https://doi.org/10.1016/j.catena.2020.104768>
- Macedo, P. M. S., Oliveira, P. T. S., Antunes, M. A. H., Durigon, V. L., Fidalgo, E. C. C., & de Carvalho, D. F. (2021). New approach for obtaining the C-factor

- of RUSLE considering the seasonal effect of rainfalls on vegetation cover. *International Soil and Water Conservation Research*, 9(2), 207–216. <https://doi.org/https://doi.org/10.1016/j.iswcr.2020.12.001>
- Mahmud, M. (2022). Skenario Konservasi Tanah pada Perkebunan Sawit sebagai Upaya Mitigasi Limpasan Permukaan pada DAS Arui, Kabupaten Manokwari, Papua Barat. *Jurnal Ilmu Pertanian Indonesia*, 28(1), 129–139. <https://doi.org/10.18343/jipi.28.1.129>
- Marcinkowski, P. (2025). Unveiling the Potential of Agricultural Soil Loss Mitigation in Poland: Assessing Conservation Management and Support Practices. *Agronomy*, 15(6), 1290. <https://doi.org/10.3390/agronomy15061290>
- Melani, A., Iswantari, A., Wulandari, D. Y., & Pratiwi, N. T. M. (2022). Kualitas air dan beban nitrogen di Waduk Jatigede. *Habitus Aquatica*. <https://journal.ipb.ac.id/habitusaquatica/article/download/55600/28789/294437>
- Menasria, A., Meddi, M., & Habaieb, H. (2022). Diachronic Study of Land Cover of the Medjerda Watershed and Estimation of RUSLE-C Factor Using NDVI-Based Equation, Remote Sensing, and GIS. *Journal of the Indian Society of Remote Sensing*, 50(3), 451–468. <https://doi.org/10.1007/s12524-021-01472-w>
- Merkohasanaj, M., Garbanzo, G., Cortez, N., Martín Peinado, F. J., Andreetta, A., Cunha-Queda, C., & Temudo, M. (2025). Soil physicochemical characterization and suitability assessment for the coastal mangrove swamp rice production system in Guinea-Bissau. *CATENA*, 256, 109131. <https://doi.org/10.1016/j.catena.2025.109131>
- Mohammed, N. A., & Asmamaw, D. K. (2021). Remote Sensing and GIS-Based Soil Loss Estimation Using RUSLE in Bahir Dar Zuria District , Ethiopia.
- Mulyono, A., Rusydi, A. F., & Lestiana, H. (2019). Permeabilitas Tanah Berbagai Tipe Penggunaan Lahan Di Tanah Aluvial Pesisir Das Cimanuk, Indramayu. *Jurnal Ilmu Lingkungan*, 17(1), 1. <https://doi.org/10.14710/jil.17.1.1-6>
- Munawaroh, S., Widada, S., Atmodjo, W., & Arifa, A. N. (2025). Analisis Granulometri Sedimen Dasar Di Muara Sungai Kaliancar Kota Mataram Nusa Tenggara Barat. 07(02), 107–116. <https://doi.org/10.14710/ijoce.v7i2.18160>
- Musielok, Ł. (2022). Occurrence of podzolization in soils developed from flysch regolith in the Wieliczka Foothills (Outer Western Carpathians, southern Poland). *Soil Science Annual*, 73(1), 1–14. <https://doi.org/10.37501/soilsa/147507>
- Nasjono, J., Hangge, E., & Kelen, M. (2022). Metode Erosivitas Hujan dan Model Sediment Delivery Ratio untuk Prakiraan Erosi dan Sedimentasi pada Bendungan Tilong. *Jurnal Teknik Sumber Daya Air*, 13(1). <https://jtsda.hathi.id/index.php/jtsda/article/view/15>
- Nefa, S. F., Alya, Z., Rahmad, R., Yulia, A., & Zilvina, B. (2025). Kajian Erosi Tanah Berbasis Sub-Das Di Pulau Jawa: Analisis Spasial, Faktor Pengaruh, Dan Strategi Konservasi. 4(3), 1–23.

<https://publisherqu.com/index.php/pediaqu>

- Nelson, L.-A., Sanborn, P., Cade-Menun, B. J., Walker, I. J., & Lian, O. B. (2021). Pedological trends and implications for forest productivity in a Holocene soil chronosequence, Calvert Island, British Columbia, Canada. *Canadian Journal of Soil Science*, 101(4), 654–672. <https://doi.org/10.1139/cjss-2021-0033>
- Nghia, N. K., Dalma, K. E., Haydee, K. M., Xa, L. T., Morton, L. W., Tecimen, H. B., Robatjazi, J., Sekar, J., Lasar, H. G. W., Nguyen, T. T., Phuong, N. M., Thy, C. T. A., Luan, D. T., & Oanh, N. T. K. (2025). Bacterial diversity in longan orchard alluvial soil is influenced by cultivation time and soil properties. *Frontiers in Soil Science*, 5. <https://doi.org/10.3389/fsoil.2025.1610343>
- Nigusse, A., Chala, G., Ademe, F., Abera, D., Abera, K., Tadess, K., Obsa, Z., Hordofa, M., Dejene, M., Getnet, H., Desalegn, T., & Mekuria, R. (2025). Effects of bio-slurry and inorganic nitrogen fertilizer rates on wheat yield components, yield, and soil properties. *Agrosystems, Geosciences & Environment*, 8(4). <https://doi.org/10.1002/agg2.70279>
- Nugroho, H. Y. S. H., Basuki, T. M., Pramono, I. B., Savitri, E., Purwanto, Indrawati, D. R., Wahyuningrum, N., Adi, R. N., Indrajaya, Y., Supangat, A. B., Putra, P. B., Auliyani, D., Priyanto, E., Yuwati, T. W., Pratiwi, Narendra, B. H., Sukmana, A., Handayani, W., Setiawan, O., & Nandini, R. (2022). Forty Years of Soil and Water Conservation Policy, Implementation, Research and Development in Indonesia: A Review. *Sustainability*, 14(5), 2972. <https://doi.org/10.3390/su14052972>
- Nugroho, N. P. (2017). Estimasi Hasil Air Dari Daerah Tangkapan Air Danau Rawa Pening Dengan Menggunakan Model Invest. *Majalah Ilmiah Globe*, 19(2), 157. <https://doi.org/10.24895/mig.2017.19-2.578>
- Nurmalasari, A. I., Rahayu, M., Sakya, A. T., Purnomo, D., & Arviana, A. D. (2025). Effects of Biochar and Organic Fertilizer Application on Soybean Growth Under Melaleuca cajuputi Stand. *Agrikultura*, 36(1), 158–167. <https://doi.org/10.24198/agrikultura.v36i1.50692>
- Obialor, C. A., Okeke, O. C., Onunkwo, A. A., Fagorite, V. I., & Ehujuo. (2019). Reservoir Sedimentation: Causes, Effects and Mitigation. *International Journal of Advanced Academic Research | Sciences*, 5(10), 2488–9849.
- Othman, A. A., Ali, S. S., Salar, S. G., Obaid, A. K., Al-Kakey, O., & Liesenberg, V. (2023). Insights for Estimating and Predicting Reservoir Sedimentation Using the RUSLE-SDR Approach: A Case of Darbandikhan Lake Basin, Iraq–Iran. *Remote Sensing*, 15(3). <https://doi.org/10.3390/rs15030697>
- Othman, A., Obaid, A., Al-Manmi, D., Al-Maamar, A., Hasan, S., Liesenberg, V., Shihab, A., & Al-Saady, Y. (2021). New Insight on Soil Loss Estimation in the Northwestern Region of the Zagros Fold and Thrust Belt. *ISPRS International Journal of Geo-Information*, 10(2), 59. <https://doi.org/10.3390/ijgi10020059>
- Ouma, Y. O., Lottering, L., & Tateishi, R. (2022). Soil Erosion Susceptibility Prediction in Railway Corridors Using RUSLE, Soil Degradation Index and the New Normalized Difference Railway Erosivity Index (NDR_{ELI}). *Remote*

- Sensing, 14(2). <https://doi.org/10.3390/rs14020348>
- Pamungkas, S. S. T., Pramudya, Y., Sukmawati, F. N., Tusrianto, T., & Hanum, F. F. (2023). An Utilizing Marginal Red Yellow Podzolic Soil as a Growing Medium for Auxin-Soaked Cutting Propagation of Red Master Grapes (*Vitis vinifera* L). *Journal of Applied Agricultural Science and Technology*, 7(4), 346–364. <https://doi.org/10.55043/jaast.v7i4.86>
- Pan, F., Yang, Q., Liang, Y., Yu, X., Hu, P., Zhang, W., & Pang, Y. (2024). Lithology and elevated temperature impact phoD-harboring bacteria on soil available P enhancing in subtropical forests. *Science of The Total Environment*, 948, 174815. <https://doi.org/10.1016/j.scitotenv.2024.174815>
- Peraturan Pemerintah RI Nomor 7. (2023). Peraturan Menteri Pekerjaan Umum Dan Perumahan Rakyat Republik Indonesia Nomor 7 Tahun 2023. <https://peraturan.bpk.go.id/Details/257268/permen-pupr-no-7-tahun-2023>
- Pivková, I., Kukla, J., Hnilička, F., Hniličková, H., Krupová, D., & Kuklová, M. (2024). Relationship of selected properties of Cambisols to altitude and forest ecosystems of four vegetation grades. *Heliyon*, 10(10), e31153. <https://doi.org/10.1016/j.heliyon.2024.e31153>
- PLN (Perusahaan Listrik Negara). (2021). Manfaatkan Bendungan Milik Kementerian PUPR. <https://web.pln.co.id/cms/media/siaran-pers/2021/06/manfaatkan-bendungan-milik-kementerian-pupr-pln-bangun-3-pltm-senilai-rp-200-miliar/#:~:text=Selain memanfaatkan bendungan%2C untuk meningkatkan,program konversi PLTD ke EBT>
- Portalanza, D., Morstadt, J. D.-C., Polhmann, V., Gallardo, G., Aguilera, K., Garcia, Y., & Rodriguez-Jarama, F. (2025). Mapping Soil Erosion and Ecosystem Service Loss: Integrating RUSLE and NDVI Metrics to Support Conservation in El Cajas National Park, Ecuador. *Hydrology*, 12(11). <https://doi.org/10.3390/hydrology12110279>
- Pradana Putra, D., Riman, & Halim, A. (2024). Studi Analisis Pengaruh Sedimentasi Terhadap Kapasitas Tampung Efektif Waduk Jambu. *BOUWPLANK Jurnal Ilmiah Teknik Sipil Dan Lingkungan*, 4(1), 16–23. <https://doi.org/10.31328/bouwplank.v4i1.481>
- Prasetyo, B. H., & Setyorini, D. (2022). Karakteristik tanah sawah dari endapan aluvial dan pengelolaannya. *Jurnal Tanah Dan Iklim*.
- Puspitasari, R. A., Suhartanto, E., & Prasetyorini, L. (2024). Analisa Laju Erosi dan Arahan Konservasi Lahan pada DAS Kedunglarangan Kabupaten Pasuruan. *Jurnal Teknologi Dan Rekayasa Sumber Daya Air*. <https://doi.org/10.21776/ub.jtresda.2024.004.01.008>
- Putra, A., Widyaningsih, R., & Nurcholis, M. (2023). Analisis Faktor Erodibilitas Tanah Penyebab Erosi di Area Tambang Batubara Site Melak. *Jurnal Mineral, Energi, Dan Lingkungan*. <https://jurnal.upnyk.ac.id/index.php/JMEL/article/view/2896>
- Putra, Y. E., & Hadiguna, R. A. (2025). Pengendalian Sedimentasi pada Saluran Irigasi: Studi Masalah dan Pendekatan Penanganannya. *Journal of Engineering Professional and Science*.

- Rabbani, G., Smeaton, C., Cheema, M., & Galagedara, L. (2025). Evaluation and estimation of boreal podzol soil nutrient concentrations using electromagnetic induction sensors. *Computers and Electronics in Agriculture*, 236, 110448. <https://doi.org/10.1016/j.compag.2025.110448>
- Raco, B., Wicaksono, A., & Triweko, R. W. (2022). Tingkat Bahaya Erosi Akibat Perubahan Tutupan Lahan Pada Daerah Tangkapan Air Danau Tondano. *Jurnal Teknik Sipil*, 11(1), 63–76.
- Rahmat, A., Agustin, L., Indriyani, I., Alfakihuddin, M. L. B., Nurhayati, S., Kiswondo, S., Amilia, E., Akbarudin, Saefullah, A., Saefuddin, R., & Mutolib, A. (2025). Characteristics of latosol soil after application of rice husk biochar in Bogor Regency, Indonesia. *BIO Web of Conferences*, 155, 01018. <https://doi.org/10.1051/bioconf/202515501018>
- Ramsaf, R. A., Zakaria, Z., Irvan Sophian, & Arie Afriadi. (2025). Potential Hazards of Erosion and Conservation Strategis in the Sail Sub-Watershed, Pekanbaru City, Riau Province, Indonesia. *Journal of Geoscience, Engineering, Environment, and Technology*, 10(1), 15–22. <https://doi.org/10.25299/jgeet.2025.10.1.20795>
- Regasa, A., Haile, W., & Abera, G. (2025). Variation in soil acidity across different land uses, soil types and altitudinal gradients in Western Oromia, Ethiopia. *Scientific Reports*, 15(1), 31565. <https://doi.org/10.1038/s41598-025-13597-w>
- Regassa, A., Assen, M., Ali, A., & Gessesse, B. (2023). Major Soil Types. In *Soil and Land Resources of Ethiopia* (pp. 77–110). Springer. https://doi.org/10.1007/978-3-031-17012-6_6
- Renard, K. G., Foster, G. R., Weesies, G. A., McCool, D. K., & Yoder, D. C. (1997). Predicting Soil Erosion by Water: A Guide to Conservation Planning with the Revised Universal Soil Loss Equation (RUSLE).
- Rifadil, A., Bakrie, I., Emawati, H., Derita, D., & Azham, Z. (2024). Pendugaan Erosi Dengan Metode Usle (Universal Soil Loss Equation) Berbasis Data Spasial Pada Areal Sebelum Dan Sesudah Tambang Di Kecamatan Palaran, Kota Samarinda. *JAKT : Jurnal Agroteknologi Dan Kehutanan Tropika*, 2(2), 215. <https://doi.org/10.31293/jakt.v2i2.7909>
- Risamasu, R. G., Maitimu, L., Luhukay, M., & Tomaso, R. (2023). Klasifikasi Sebaran Status Kesuburan Tanah Di Kecamatan Teluk Elpaputih (Studi Kasus Areal Kebun Awaya). *Jurnal Agrosilvopasture-Tech*, 2(2), 473–478. <https://doi.org/10.30598/j.agrosilvopasture-tech.2023.2.2.473>
- Rizqiyah, E. L., Utami, S. N. H., & Purwanto, B. H. (2025). Adsorption and Desorption of Phosphorus in Andisol at Several Elevation Variations in the Catena of Mount Merbabu and Sindoro. *BIO Web of Conferences*, 167, 03001. <https://doi.org/10.1051/bioconf/202516703001>
- Rochmah, B. D. A., Markum, & Setiawan, B. (2023). Penggunaan Metode Interpolasi Data Curah Hujan Untuk Pemetaan Potensi Daerah Rawan Banjir Di Kota Mataram.
- Rohmaniyah, I. (2015). Skripsi_Inayah R_5415117403.

- Rosidin, D. A., Suhartanto, E., & Andawayanti, U. (2023). Pemetaan Sebaran Indeks Bahaya Erosi dan Arahan Penggunaan Lahan di Sub DAS Brantas Hulu Kota Batu Berbasis Sistem Informasi Geografis. *Jurnal Teknologi Dan Rekayasa Sumber Daya Air*, 3(1), 198–212. <https://doi.org/10.21776/ub.jtresda.2023.003.01.18>
- Rosmaeni, R., Malamassam, D., Zubair, H., & Mursyid, M. (2022). Soil Erosion Over Different Slopes Under Pine Stands. *Indonesian Journal of Forestry Research*, 9(2), 265–276. <https://doi.org/10.59465/ijfr.2022.9.2.265-276>
- Rouse, J.W., Haas, R.H., Schell, J.A., Deering, D. W. (1973). Monitoring Vegetation System in the Great Plains with ERTS (Earth Resources Technology Satellite) (Proceeedin).
- Saidin, A., Sharir, K., Warnana, D. D., Lestari, W., & Roslee, R. (2025). RUSLE-Based Erosion Analysis and Its Contribution to Flooding in Kota Belud, Sabah. *International Journal of Design and Nature and Ecodynamics*, 20(7), 1491–1498. <https://doi.org/10.18280/ij dne.200706>
- Samudera, R. P., Genta, M., Santosa, B., & Suwarno, D. (2021). Potensi Laju Erosi DAS Waduk Randugunting Menggunakan Metode USLE. *G-SMART Jurnal Teknik Sipil Unika Soegijapranata Semarang*, 5(1), 27–33.
- Šarapatka, B., Bednář, M., Pospíšilová, L., Badalíková, B., Černohorský, J., Netopil, P., & Sedlák, L. (2024). The Influence of Erosion and Deposition Processes on the Selected Soil Properties of Chernozems and Cambisols. *Land*, 13(11), 1812. <https://doi.org/10.3390/land13111812>
- Sari, L. N., Budiyo, S., & Purbajanti, E. D. (2024). Evaluasi Kesesuaian Lahan Kecamatan Karangmalang Kabupaten Sragen Jawa Tengah Untuk Pengembangan Tanaman Pangan. *Jurnal Ilmu-Ilmu Pertanian Indonesia*, 26(1), 61–71. <https://doi.org/10.31186/jipi.26.1.61-71>
- Schaefer, C. E. G. R., Siqueira, R. G., Pereira, L. F., Gomes, L. de C., Almeida, P. H. A., Francelino, M. R., Firmino, F. H. T., de Souza, J. J. L. L., Ker, J. C., & Fernandes-Filho, E. I. (2025). Brazilian Latossolos (Ferralsols, Oxisols) from different biomes: a multiproxy study on the spatial variability of the most weathered tropical soils in South America. *Geoderma Regional*, 43, e01012. <https://doi.org/10.1016/j.geodrs.2025.e01012>
- Septiyanti, B. E., Ngadisih, N., Setyawan, C., & Susanto, S. (2023a). Application of Wischmeier-Smith, EPIC, M-USLE, and WEPP Methods for Determination of Erodibility Factor (K) of Soil. *Jurnal Teknik Pertanian Lampung (Journal of Agricultural Engineering)*, 12(3), 653. <https://doi.org/10.23960/jtep-l.v12i3.653-664>
- Septiyanti, B. E., Ngadisih, N., Setyawan, C., & Susanto, S. (2023b). Application of Wischmeier-Smith, EPIC, M-USLE, and WEPP Methods for Determination of Erodibility Factor (K) of Soil. *Jurnal Teknik Pertanian Lampung*. <https://jurnal.fp.unila.ac.id/index.php/JTP/article/view/6314>
- Setiawan, B., Ramanda, R. F., & Nurhayati, N. (2025). Perubahan Karakteristik Kimia Tanah Aluvial Akibat Pemberian Biochar Tandan Kosong Kelapa Sawit dan Fly Ash Batu Bara. *Agrikultura*, 36(1), 79–88. <https://doi.org/10.24198/agrikultura.v36i1.59779>

- Shabrina, F., Syarbini, M., & Hadi, A. (2025). Pengaruh aplikasi lumpur padat limbah pabrik kelapa sawit terhadap hara dan produksi tanaman pada tanah Podsolik. *Acta Solum*, 3(2), 86–93.
- Siwi, R. S., Nurcholis, M., & Virgawati, S. (2023). Morfologi Dan Klasifikasi Tanah Pada Formasi Waturanda Dengan Penggunaan Lahan Hutan Dan Tegalan Di Desa Lebakwangi, Banjarnegara, Jawa Tengah. *Jurnal Tanah Dan Sumberdaya Lahan*, 10(2), 307–318. <https://doi.org/10.21776/ub.jtsl.2023.010.2.14>
- Souza, D. S. L. de, Silva, M. L. da, Batezelli, A., Mira, Í. R. C. de, & Silva, G. T. G. (2023). Gleysols genesis and fluvial dynamics in a quaternary floodplain of the meandering river, Minas Gerais, Brazil. *Journal of South American Earth Sciences*, 131, 104615. <https://doi.org/10.1016/j.jsames.2023.104615>
- Starks, P. J., Moriasi, D. N., & Fortuna, A.-M. (2023). GIS-Based RUSLE Reservoir Sedimentation Estimates: Temporally Variable C-Factors, Sediment Delivery Ratio, and Adjustment for Stream Channel and Bank Sediment Sources. *Land*, 12(10), 1913. <https://doi.org/10.3390/land12101913>
- Suhartono, S., Suryono, E., Yusriah, Y., & Khoiri, S. (2023). Effect of phosphate-solubilizing bacteria on growth and yield of *Arachis hypogaea* L. in varied soil types. *Agrovigor: Jurnal Agroekoteknologi*, 16(2), 96–101. <https://doi.org/10.21107/agrovigor.v16i2.20763>
- Supriyono, H., & Setiawan, B. (2022). Kajian Erosivitas Hujan dan Erosi Tanah Menggunakan Pendekatan USLE di Sub DAS Brantas Hulu, Jawa Timur. *Jurnal Tanah Dan Air Indonesia*. <https://ejournal.brin.go.id/jtanahair/article/view/1521>
- Suryanto, J., Krisbiyantoro, J., Studi, P., Pertanian, T., Tinggi, S., Kutai, P., Hatta, J. S., Lingga, T., Utara, K. S., & Timur, K. K. (2025). Kabupaten Kutai Timur Menggunakan Model Usle Dan Aplikasi Sistem Informasi Geografis Erosi adalah proses hilangnya partikel tanah pada permukaan tanah pada hubungan statistik yang signifikan Model empiris Universal Soil Loss Equation (USLE) merupakan mo. 24(1), 87–102.
- Sutrisno, N., & Heryani, N. (2013). Teknologi Konservasi Tanah dan Air Untuk Mencegah Degradasi Lahan Pertanian Berlereng. *J. Litbang Pert*, 32(3), 122–130.
- Suwarno, Sutomo, & Setiawan, E. (2017). Pemetaan Bahaya Erosi Di Sub-Daerah Aliran Sungai Logawa Kabupaten Banyumas Dengan Sistem Informasi Geografis. *Prosiding Seminar Nasional Penerapan Ilmu Pengetahuan Dan Teknologi*, 159–164.
- Suyana, J., Idris, S., Muliawati, E. S., & Cahyono, O. (2025). Characteristics of soil physical properties based on soil profile depth in forest stands and upland farms in Andisols. *Journal of Aridland Agriculture*, 62–68. <https://doi.org/10.25081/jaa.2025.v11.8870>
- Tatipata, W. H., Soekarno, I., Sabar, A., & Legowo, S. (2015). Analisis Volume Sedimen yang Mengendap Setelah T-Tahun Waduk Beroperasi (Studi Kasus: Waduk Cirata). *Jurnal Teknik Sipil*, 22(3), 235–242.

- Taufan, L. B., & Pratomo, R. A. (2022). Implementasi Instrumen Zoning Regulation dalam Penanganan Lahan Kritis di DTA Kaskade Mahakam. *Jurnal Wilayah Dan Lingkungan*; Vol 10, No 2 (2022): August 2022. <https://doi.org/10.14710/jwl.10.2.151-165>
- Tunas, I. G. (2005). Prediksi Erosi Lahan DAS Bengkulu Dengan Sistem Informasi Geografis (SIG). *Untad.Ac.Id*, 3(3), 607–620.
- Udayana, C., Andreassen, H. P., & Skarpe, C. (2020). Understory diversity and composition after planting of teak and mahogany in Yogyakarta, Indonesia. *Journal of Sustainable Forestry*, 39(5), 494–510. <https://doi.org/10.1080/10549811.2019.1686029>
- Urifa, & Bowo, C. (2020). Pengaruh biochar limbah batang jagung pada sifat fisik tanah aluvial. *Jurnal Agrisia*.
- Virgiyanti, D. (2016). Bangunan Pengendali Sedimen untuk Mereduksi Volume Sedimentasi yang Masuk ke Waduk Jatigede [Universitas Pendidikan Indonesia]. <https://repository.upi.edu/26850/>
- Virayani, A., Bakri, S., & Indriyanti. (2022). Pengaruh Vegetasi Terhadap Laju Erosi di DAS Sungai Maros Takalar. *Arus Jurnal Sains Dan Teknologi*.
- Vopravil, J., Formánek, P., & Khel, T. (2020). Comparison of the physical properties of soils belonging to different reference soil groups. *Soil and Water Research*, 16(1), 29–38. <https://doi.org/10.17221/31/2020-SWR>
- Wang, S., Li, L., Tang, S., Si, H., Xie, H., Zhu, Z., Ji, L., Wang, R., Gao, Z., & Tian, B. (2025). Effects of Substituting Organic Fertilizers for Chemical Nitrogen Fertilizers on Physical and Chemical Properties and Maize Yield of Anthropogenic-Alluvial Soil. *Agronomy*, 15(11), 2581. <https://doi.org/10.3390/agronomy15112581>
- Ward, A. D., Trimble, S. W., & Burckhard, S. R. (2011). *Environmental Hydrology* (2nd ed.). CRC Press.
- Wicaksono, A., & Jayanto, G. D. (2021). Pemetaan Potensi Kerentanan Pencemaran Air Permukaan untuk Pengendalian Sanitasi Lingkungan di Kabupaten Buleleng. *Jurnal Penelitian Sosial Dan Ekonomi Kehutanan*. https://www.researchgate.net/profile/Arief-Wicaksono-2/publication/352319125_Pemetaan_Potensi_Kerentanan_Pencemaran_Air_Permukaan_untuk_Pengendalian_Sanitasi_Lingkungan_di_Kabupaten_Buleleng_Mapping_on_the_potential_vulnerability_of_surface_water_pollutio
- Winata, A. A., Nasution, Z., & Razali, R. (2023). Characteristics of Physical and Chemical Properties in Andisol Soil Processing Affected by Volcanic Ash and Non-Volcanic Ash Sinabung In Karo Regency. *Jurnal Agroteknologi*, 11(3), 7–14. <https://doi.org/10.32734/ja.v11i3.19922>
- Wischmeier, W. H., & Smith, D. D. (1978). Predicting rainfall erosion losses: A guide to conservation planning.
- World Reference Base for Soil Resources (WRB). (2022). International soil classification system for naming soils and creating legends for soil maps (4th ed.).

- Wulan, R., Ramadhani, S., Roeslan, M., & Mulyanto, D. (2023). Kajian Pertumbuhan Tanaman Dan Produktivitas Biomassa Balai Kph Yogyakarta Study Of Plant Growth And Biomass Productivity Of Eucalyptus Tree Leaves On Different Soil Types At Bdh Playen Balai Kph Yogyakarta) Jurusan Agroteknologi , Universitas Pembanguna. 20(Juni), 32–41.
- Wulandari, A., & Cahyono, B. K. (2020). Estimasi Volume Sedimentasi Waduk Sermo Menggunakan Metode RUSLE, Batimetri dan Angkutan Sedimen. *Journal of Geospatial Information Science and Engineering*, 3(1), 39–48. <https://doi.org/https://doi.org/10.22146/jgise.53719>
- Yan, H., Wang, L., Wang, T. W., Wang, Z., & Shi, Z. H. (2020). A synthesized approach for estimating the C-factor of RUSLE for a mixed-landscape watershed: A case study in the Gongshui watershed, southern China. *Agriculture, Ecosystems & Environment*, 301, 107009. <https://doi.org/https://doi.org/10.1016/j.agee.2020.107009>
- Yang, H., Wang, T., Yang, D., Yan, Z., Wu, J., & Lei, H. (2024). Runoff and sediment effect of the soil-water conservation measures in a typical river basin of the Loess Plateau. *Catena*, 243, 108218. <https://doi.org/10.1016/j.catena.2024.108218>
- Yang, T., Wu, F., Luo, M., Xiong, J., Nie, X., Cao, F., Ruan, Y., Li, F., Huang, W., Liang, T., & Yang, Y. (2024). Accumulation Pattern and Potential Ecological Risk of Heavy Metals in Topsoil as Affected by Diverse Sources in Different Ecosystems in Western Dabie Mountain. *Forests*, 15(7), 1116. <https://doi.org/10.3390/f15071116>
- Yigini, Y., Panos Panagos, & Montanarella, L. (2020). Soil resources of Mediterranean and Caucasus countries.
- Yulianti, R., Supriyadi, & Nugroho, R. A. (2020). Dampak perubahan penggunaan lahan terhadap potensi erosi di hulu DAS Cimanuk. *Jurnal Tanah Dan Sumberdaya Lahan*, 7(2), 211–220. <https://doi.org/10.24198/jtsl.v7i2.27487>
- Yulistyarini, T. (2022). Karakteristik Vegetasi dan Biogeohidrofisik Daerah Resapan Mata Air di Kecamatan Ngantang untuk Memaksimalkan Debit. Prosiding Seminar Nasional. https://www.researchgate.net/profile/Titut-Yulistyarini/publication/361182697_Karakteristik_Vegetasi_Dan_Biogeohidrofisik_Daerah_Resapan_Mata_Air_Di_Kecamatan_Ngantang_Untuk_Memaksimalkan_Debit_Vegetation_And_Biogeohydrophysic_Characteristics_Of_Springs_R
- Yuniti, I. G. D. A., Purba, J. H., Sasmita, N., Komara, L. L., Olviana, T., & Kartika, I. M. (2022). Balinese Traditional Agroforestry as Base of Watershed Conservation. *Journal of Applied Agricultural Science and Technology*, 6(1), 49–60. <https://doi.org/10.55043/jaast.v6i1.54>
- Zádorová, T., Penížek, V., Mihaljevič, M., Koubová, M., Lisá, L., Ettler, V., Tejnecký, V., Drábek, O., Pavlů, L., Kříbek, B., Vaněk, A., Sracek, O., Rojas, J. R., Hrdlička, T., Vokurková, P., & Mapani, B. (2025). Local diversity of soil forming processes in the semi-arid tropics and its environmental drivers: An example from Otavi Mountains, northern Namibia. *CATENA*, 249, 108671. <https://doi.org/10.1016/j.catena.2024.108671>

- Zhang, H., Shao, Z., Zhao, J., Huang, X., Yang, J., Hu, B., & Wu, W. (2021). An extended watershed-based zonal statistical AHP model for flood risk estimation: Constraining runoff converging related indicators by sub-watersheds. <https://arxiv.org/abs/2107.02043>
- Zuhdi, A. M. H., Wahjunie, E. D., & Tarigan, S. D. (2022). Retensi Air Tanah pada Jenis Tanah Tropis. *Jurnal Tanah Tropika Indonesia*. <https://doi.org/http://dx.doi.org/10.21082/jti.v46n1.2022.13-21>