

DAFTAR PUSTAKA

- Ahmed, A., Y. Garipey, and V. Raghavan. 2017. Influence of wood-derived biochar on the compactibility and strength of silt loam soil. *International Agrophysics*, 31(2): 149-155.
- Aksakal E.L., Angin I., and Oztas T., 2013. Effects of diatomite on soil consistency limits and soil compactibility. *Catena*, 101: 157-163.
- Apriyono, A. 2009. Analisis Penyebab Tanah Longsor di Kalitlaga Banjarnegara. *Dinamika Rekayasa*, 5(1): 14-18.
- Aristanto, E., S. Hidayatullah, M. Baidawi, I. Windhyastiti, dan D. Larasati. 2022. Penyusunan rencana pemulihan sebelum terjadi bencana (*pre disaster recovery planning*) sebagai upaya memitigasi risiko kemungkinan kejadian bencana tanah longsor di Kabupaten Purworejo. *PEDULI: Jurnal Ilmiah Pengabdian Pada Masyarakat* 6(1): 65-77.
- Arthur, E., P. Schjønning, P. Moldrup, M. Tuller, and L. W. de Jonge. Density and permeability of a loess soil: long-term organic matter effect and the response to compressive stress. *Geoderma*, 193-194(2013): 236-245.
- Atterberg, A. 1911. Die plastizitat der tone. *Internationale mitteilungen fur bodenkunde* 1991(1): 10-43.
- Balai Penelitian Tanah. 2009. Analisis Kimia Tanah, Tanaman, Air, dan Pupuk. Balai Penelitian Tanah, Bogor.
- Balai Penelitian Tanah. 2022. Sifat Fisik Tanah dan Metode Analisisnya. Balai Penelitian Tanah, Bogor.
- Bedaiwy, M. N. and D. E. Rolston. 1993. Soil surface densification under simulated high intensity rainfall. *Soil Technology*, 6(4): 365-376.
- Begna, M. 2020. Review on effect of toposequence on soil physicochemical properties. *Ethiopian Journal of Environmental Studies and Management* 13(4): 452-464.
- Behroozi, A., M. Arora, T. D. Fletcher, A. W. Western, and J. F. Costelloe. 2021. Understanding the impact of soil clay mineralogy on the adsorption behavior of zinc. *International Journal of Environmental Research*, 15: 559-569.
- Błońska, E., J. Lasota, W. Piaszezyk, M. Wiecheć, and A. Klamerus-Iwan. 2018. The effect of landslide on soil organic carbon stock and biochemical properties of soil. *Journal of Soil and Sediments* 2018(18): 2727-2737.
- Bonetti, J. A., I. Anghinoni, M. T. Moraes, and J. R. Fink. 2017. Resilience of soils with different texture, mineralogy and organic matter under long-term conservation systems. *Soil & Tillage Research*, 174(2017): 104-112.
- Buol, S. W., R. J. Southard, R. C. Graham, and P. A. McDaniel. 2011. *Soil Genesis and Classification*. Wiley-Blackwell, West Sussex.
- Che, Y., B. Zhang, B. Liu, J. Wang, and H. Zhang. 2024. Effects of Straw Return Rate on Soil Physicochemical Properties and Yield in Paddy Fields. *Agronomy*, 14(8): 1-17.

- Chen, H. E., Y. Y. Chiu, T. L. Tsai, J. C. Yang. 2020. Effect of rainfall, runoff and infiltration processes on the stability of footslopes. *Water*, 12(5): 1-19.
- Cho, S. E. 2017. Prediction of shallow landslide by surficial stability analysis considering rainfall infiltration. *Engineering Geology* 2017(231): 126-138.
- Cho, S. E. 2020. Failure distribution analysis of shallow landslides under rainfall infiltration based on fragility curves. *Landslide*, 17: 79-91.
- Corominas, J. and J. Moya. 2008. A review of assessing landslide frequency for hazard zoning purposes. *Engineering Geology*, 102(2008): 193-213.
- Dewi, C. and Y. K. Arbawa. 2019. Performance evaluation of distance function in knn and wknn for classification of soil organic matter. *International Conference on Sustainable Information Engineering and Technology (SIET)*, 196–199.
- Duchaufour, P. 1982. *Pedology*. George Allen & Unwin, London.
- E. Polidori. 2007. Relationship between the atterberg limits and clay content. *Soils and Foundations* 47(5): 887-896.
- Eden, M., P. Schjønning, P. Moldrup, and L. W. De Jonge. 2011. Compaction and rotovation effects on soil pore characteristics of a loamy sand soil with contrasting organic matter content. *Soil Use and Management*, 27(3) 340: 349.
- Elhakim, A. F. 2016. Estimation of soil permeability. *Alexandria Engineering Journal* 55(2016): 2631-2638.
- Elrick D. R. and W. D. Reynolds. 1992. Methods for analyzing constanthead well permeameter data. *Soil Science Society of America Journal* 56: 320-323.
- Eusufzai, M. K. and K. Fujii. 2012. Effect of organic matter amendment on hydraulic and pore characteristics of a clay loam soil. *Open Journal of Soil Science*, 2(4): 372-381.
- Eynde, E. V., S. Dondeyne, M. Isabirye, J. Deckers, and J. Poesen. 2017. Impact of landslides on soil characteristics: Implications for estimating their age. *Catena*, 157: 173-179.
- Fadillah, N., M. Utomo, N. A. Afrianti, dan Sarno. 2022. Perubahan sifat kimia tanah pada profil tanah akibat penerapan sistem olah tanah dan pemupukan N jangka panjang pada lahan pertanaman jagung (*Zea mays* L.) di kebun percobaan Politeknik Negeri Lampung. *Jurnal Agrotek Tropika* 10(4): 627-632.
- Felix, I. R. Rismaneswati, dan S. A. Lias. 2020. Karakterisasi lahan sawah bukaan baru hasil konversi lahan hutan di Desa Kalosi Kecamatan Towuti Kabupaten Luwu Timur. *Jurnal Ecosolum* 9(1): 69-89.
- Fitriani, D. A., Mahrup, I. Yasin, dan L. A. A. Bakti. 2022. Kecendrungan warna tanah dan status bahan organik pada lahan pertanian yang mengalami penutupan awan rendah berbasis peta terra modis di Pulau Lombok. *Journal of Soil Quality and Management* 1(1): 1-6.

- Gang, L., T. Fu-guo, Z. Yi-tong, and T. Bin. 2018. A force transfer mechanism for triggering landslides during rainfall infiltration. *Journal of Mountain Science* 15(11): 2480-2491.
- Gautama, G. 2016. Perbaikan tanah labil dengan menggunakan mineral kapur sebagai pendukung pondasi dasar jalan raya. *Jurnal Inovasi Pembangunan*, 4(1): 63-71.
- Geertsema, M., L. Highland, and L. Vaugeouis. 2009. Environmental impact of landslides. *Landslides – Disaster Risk Reduction*, 31: 589-607.
- Guo, Z., J. Zhang, J. Fan, X. Yang, Y. Yi, X. Han, D. Wang, P. Zhu, and X. Peng. 2019. Does animal manure application improve soil aggregation? Insights from nine long-term fertilization experiments. *Science of the Total Environment*, 660(2019): 1029-1037.
- Hakim, N., M. Y. Nyakpa, A. M. Lubis, S. G. Nugroho, M. A. Diha, G. B. Hong, and H. H. Bailey. 1986. *Dasar-Dasar Ilmu Tanah*. Universitas Lampung, Jakarta.
- Han, P., D. Dong, X. Zhao, L. Jiao, dan Y. Lang. 2016. A smartphone-based soil color sensor: For soil type classification. *Computers and Electronics in Agriculture* 123(2016): 232-241.
- Hardjowigeno, S. 2003. *Klasifikasi Tanah dan Pedogenesis*. Akademik Pressindo, Jakarta.
- Harto, S. 2000. *Hidrologi*. Nafitri Offset, Yogyakarta.
- He, Y., E. Lehndorff, W. Amelung, R. Wassmann, M. C. Alberto, G. Unold. And J. Siemens. 2017. Drainage and leaching losses of nitrogen and dissolved organic carbon after introducing maize into a continuous paddy-rice crop rotation. *Agriculture, Ecosystems and Environment*, 249: 91-100.
- Hidayat, R. 2018. Analisis stabilitas lereng pada longsor Desa Caok, Purworejo, Jawa Tengah. *Jurnal Sumber Daya Air* 14(1): 63-74.
- Highland, L. M., and P. Bobrowsky. 2008. *A Guide to Understanding Landslides*. U. S. Geological Survey, Virginia.
- Hillel, D. 1998. *Environmental Soil Physics: Fundamentals, Applications, and Environmental Considerations*. Academic Press, San Diego.
- Jackson, M. L., S. A. Tyler, A. L. Willis, G. A. Bourbeau, and R. P. Pennington. 1948. Weathering sequence of clay-size minerals in soils and sediments. *The Journal of Physical and Colloid Chemistry*, 52(7): 1237-1260.
- Jambak, M. K. F. A., D. P. T. Baskoro, dan E. D. Wahjunie. 2017. Karakteristik sifat fisik tanah pada sistem pengolahan tanah konservasi (studi kasus: kebun percobaan cikabayan). *Buletin Tanah dan Lahan* 1(1): 44-50.
- Johnson, N. C., R. M. Miller, and G. W. T. Wilson. 2017. Mycorrhizal interactions with climate, soil parent material, and topography. *Mycorrhizal Mediation of Soil* 4(2017): 47-66.

- Juwita, R., and I. B. Santoso. 2019. Assessment of soil infiltration capability in Balikpapan City. *IPTEK Journal of Proceedings Series* 5(2019): 291-297.
- Khosiah dan A. Ariani. 2017. Tingkat kerawanan tanah longsor di Dusun Landungan Desa Guntur Macan Kecamatan Gunungsari Kabupaten Lombok Barat. *Jurnal Ilmiah Mandala Education* 3(1): 195-200.
- Kodoatie, R. J. 2012. *Tata Ruang Air Tanah*. ANDI, Yogyakarta.
- Landon, J. R. 1991. *A handbook for soil survey and agricultural land evaluation in the tropics and subtropics*. Longman Scientific & Technical Group, New York.
- Lee, M. H., E. H. Chang, C. H. Lee, J. Y. Chen, and S. H. Jien. 2021. Effects of biochar on soil aggregation and distribution of organic carbon fractions in aggregates. *Processes*, 9(8): 1-16.
- Lennartz, B., R. Horn, R. Duttman, H. H. Gerke, R. Tippkötter, T. Eickhorst, I. Janssen, M. Janssen, B. Ruth, T. Sander, X. Shi, K. Sumfleth, H. Taubner, and B. Zhang. 2009. Ecological safe management of terraced rice paddy landscapes. *Soil & Tillage Research*, 102(2009): 179-192.
- Limbong, W. M. M., T. Sabrina, dan A. Lubis. 2017. Perbaikan beberapa sifat fisika tanah sawah ditanami semangka melalui pemberian bahan organik. *Jurnal Agroteknologi FP USU* 5(1): 152-158.
- Liu, B., Q. Wu, F. Wang, and B. Zhang. 2019. Is straw return-to-field always beneficial? Evidence from an integrated cost-benefit analysis. *Energy*, 171(2019): 393-402.
- Mai, V. T., H. Keulen, R. Hessel, C. Ritsema, R. Roetter, and T. Phien. 2013. Influence of paddy rice terraces on soil erosion of a small watershed in a hilly area of Northern Vietnam. *Paddy and Water Environment*, 11: 285-298.
- Mangala, O. S., P. Toppo, and S. Ghoshal. 2016. Study infiltration capacity of different soils. *International Journal of Trend in Research and Development* 3(2): 388-390.
- Marsoedi, D.S., Widagdo, J. Dai, N. Suharta, Darul S.W.P., S. Hardjowigeno dan E.R. Jordens. 1997. *Pedoman Klasifikasi Landform*. Technical Report No.5, Versi 3. Proyek LREP II. Pusat Penelitian Tanah dan Agroklimat, Badan Penelitian dan Pengembangan Pertanian.
- Matchavariani, L. 2019. Soil forming factors. *The Soil of Georgia* 3(2019): 19-50.
- Matthew, J., D. G. Babu, S. Kundu, K. V. Kumar, and C. C. Pant. 2014. Integrating intensity-duration-based rainfall threshold and antecedent rainfall-based probability estimate towards generating early warning for rainfall-induced landslides in parts of the Garhwal Himalaya, India. *Landslide*, 11: 575-588.
- Mitchell, J. K. and K Soga. 2005. *Fundamentals of Soil Behavior*. John Wiley & Sons, Inc, Canada.
- Monde, A., N. Sinukaban, K. Murti Laksono, dan N. Pandjaitan. 2008. Dinamika karbon (C) akibat alih guna lahan hutan menjadi lahan pertanian. *Jurnal Agroland* 15(1): 22-26.

- Moore, I. D., C. L. Larson, D. C. Slack, B. N. Wilson, F. Idike, and M. C. Hirschi. 1981. Modelling infiltration: a measurable parameter approach, 26(1): 21-32.
- Mori, Y., M. Sasaki, E. Morioka, and K. Tsujimoto. 2019. When do rice terraces become rice terraces. *Paddy and Water Environment*, 17: 323-330.
- Mu, W., X. Mu, C. Qian, and K. Wang. 2020. Triggering mechanism and reactivation probability of loess-mudstone landslides induced by rainfall infiltration: a case study in Qinghai Province, Northwestern China. *Environmental Earth Sciences*, 79(22): 1-19.
- Mulyani, A. dan F. Agus. 2017. Kebutuhan dan ketersediaan lahan cadangan untuk mewujudkan cita-cita indonesia sebagai lumbung pangan dunia tahun 2045. *Analisis Kebijakan Pertanian* 15(1): 1-17.
- Mulyanto, B. S., Supriyadi, dan D. Purnomo. 2015. Analisis tanah untuk rekomendasi pemupukan pada budidaya jagung, padi dan ketela pohon. *Caraka Tani Journal of Sustainable Agriculture*, 30(2): 91-96.
- Muntohar, A. S. and H. J. Liao. 2010. Rainfall infiltration: infinite slope model for landslides triggering by rainstorm. *Natural Hazards*, 54: 967-984.
- Murwanto, H., A. Purwoarminta, dan D. A. Siregar. 2014. Pengaruh tektonik dan longsor lahan terhadap perubahan bentuklahan di bagian selatan Danau Purba Borobudur. *Jurnal Lingkungan dan Bencana Geologi* 5(2): 143-158.
- Nakao, A., S. Funakawa, A. Takeda, H. Tsukada, and T. Kosaki. 2012. The distribution coefficient for cesium in different clay fractions in soils developed from granite and Paleozoic shales in Japan. *Soil Science and Plant Nutrition*, 58(4): 397-403.
- Naryanto, H. S., H. Soewandita, D. Ganesha, F. Prawiradisastra, dan 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.
- Nasution, E. K. I., E. N. Ritonga, E. S. Siregar, dan S. Harahap. 2022. Pengaruh olah tanah dan pemberian pupuk N berdasarkan BWD (Bagan Warna Daun) terhadap pertumbuhan dan produksi padi sawah varietas mekongga (*Oryza sativa* L.). *Formosa Journal of Multidisciplinary Research*, 1(3): 455-468.
- Novianto, D. dan Supiyono. 2012. Pengaruh perubahan tegangan prakonsolidasi efektif (σ'_c) pada penambahan kapur terhadap tanah lempung. *Media Teknik Sipil* 10(2): 95-101.
- Okamoto, T., S. Matsuura, J. O. Larsen, S. Asano, and K. Abe. 2018. The response of pore water pressure to snow accumulation on a low-permeability clay landslide. *Engineering Geology*, 242(2018): 130-141.
- Oksana, M. Irfan, dan M. U. Huda. 2012. Pengaruh alih fungsi lahan hutan menjadi perkebunan kelapa sawit terhadap sifat kimia tanah. *Jurnal Agroteknologi* 3(1): 29-34.

- Pan, C., X. Xie, J. Gen, and W. Wang. 2020. Effect of stabilization/solidification on mechanical and phase characteristics of organic river silt by a stabilizer. *Construction and Building Materials* 236(2020): 1-10.
- Peres, D. J., A. Cancelliere, R. Greco, and T. A. Bogaard. 2018. Influence of uncertain identification of triggering rainfall on the assessment of landslide early warning thresholds. *Natural Hazards and Earth System Sciences*, 18: 633-646.
- Priyono, K. D. 2012. Kajian mineral lempung pada kejadian bencana longsor lahan di Pegunungan Kulonprogo Daerah Istimewa Yogyakarta. *Forum Geografi* 26(1): 53-64.
- Priyono, K. D., Sunarto, J. Sartohadi, dan Sudibyakto. 2011. Tipologi pedogeomorfik longsorlahan di Pegunungan Menoreh Kabupaten Kulonprogo Daerah Istimewa Yogyakarta. *Forum Geografi* 25(1): 67-84.
- Pujawan, M., Afandi, H. Novpriansyah, dan K. E. S. Manik. 2016. Kemantapan agregat tanah pada lahan produksi rendah dan tinggi di Pt. Great Giant Pineapple. *Jurnal Agrotek Topika* 4(1): 111-115.
- Putra, R. E., M. L. Rayes, S. Kurniawan, dan R. Ustiatik. 2024. Pengaruh kombinasi pupuk organik dan anorganik terhadap sifat fisik dan kimia tanah serta produksi padi pada lahan kering yang disawahkan. *Jurnal Agrikultura* 35(1): 136-150.
- Rahayu, A., S. R. Utami, dan M. L. Rayes. 2014. Karakteristik dan klasifikasi tanah pada lahan kering dan lahan yang disawahkan di Kecamatan Perak Kabupaten Jombang. *Jurnal Tanah dan Sumberdaya Lahan* 1(2): 79-87.
- Ramadhani, T., Iswan, dan M. Jafri. 2015. Hubungan batas cair dan plastisitas indeks tanah lempung yang disubstitusi pasir terhadap nilai kohesi tanah pada uji direct shear. *Jurnal Rekayasa Sipil dan Desain* 3(2): 291-302.
- Ran, Q., Y. Hong, W. Li, and J. Gao. 2018. A modelling study of rainfall-induced shallow landslide mechanisms under different rainfall characteristics. *Journal of Hydrology*, 563(2018): 790-801.
- Rayes, M. L. 2017. *Morfologi dan Klasifikasi Tanah*. UB Press, Malang.
- Rayes, M. L., H. Subagyo dan Hardjowigeno. 2004. *Morfologi dan Klasifikasi Tanah Sawah*. Pusat Penelitian dan Pengembangan Tanah dan Agroklimat, Bogor.
- Reynolds W. D. and Elrick D. R. 1986. A method for simultaneous in situ measurement in the vadose zone of "eld-saturated hydraulic conductivity, sorptivity and the conductivity pressure-head relationship. *Ground Water Monitoring Review* 6(1): 84-95.
- Rosyidah, E. dan R. Wirosoedarmo. 2013. Pengaruh sifat fisik tanah pada konduktivitas hidrolis jenuh di 5 penggunaan lahan (studi kasus di Kelurahan Summersari Malang). *Agritech*, 33(3): 340-345.
- Safi, W. and S. Singh. 2022. Efficient & effective improvement and stabilization of clay soil with waste materials. *Materials Today: Proceedings*, 51(2022): 947-955.

- Sasangka, D. J., D. Insani, dan I. G. B. Indrawan. 2020. Engineering gology model of bener dam diversion tunnels in geological risk disaster mitigation. *Jurnal Geofisika Eksplorasi* 6(3): 205-215.
- Schoonover, J. E. and J. F. Crim. 2015. An introduction to soil concepts and the role of soils in watershed management. *Journal of Contemporary Water Research and Education* 154(1): 21-47.
- Setyoningrum, M. P. 2017. Hubungan karakteristik tanah dan longsor di sub das samin hulu kabupaten karanganyar. Skripsi, Universitas Gadjah Mada.
- Singh, V. K., D. Kumar, P. S. Kashyap, P. K. Singh. A. Kumar, and S. K. Singh. 2020. Modelling of soil permeability using different data driven algorithms based on physical properties of soil. *Journal of Hydrology* 2020(580): 1-10.
- Siringoringo, H. H. 2013. Perbedaan simpanan karbon organik pada hutan tanaman *Acacia mangium willd* dan hutan sekunder muda. *Jurnal Penelitian Hutan dan Konservasi Alam* 11(1): 13-39.
- Siwi, R. S., M. Nurcholis, dan S. Virgawati. 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.
- Song, Z., X. Li, J. J. Lizárraga, L. Zhao, and G. Buscarnera. 2020. Spatially distributed landslide triggering analyses accounting for coupled infiltration and volume change. *Landslide*, 17: 2811-2824.
- Sudaryanto, R. 2009. Penyawahan terus menerus memacu percepatan pelapukan tanah. *Sains Tanah, Jurnal Ilmu Tanah dan Agroklimatologi* 6(1): 35-42.
- Suprihatin, A. dan J. Amirrullah. 2018. Pengaruh pola rotasi tanaman terhadap perbaikan sifat tanah sawah irigasi. *Jurnal Sumberdaya Lahan* 12(1): 49-57.
- Suryani, I. 2014. Kapasitas Tukar Kation (KTK) berbagai kedalaman tanah pada areal konversi lahan hutan. *Jurnal Agrisistem* 10(2): 99-106.
- Sutasoma, M., A. Susilo, dan E. A. Suryo. Penyelidikan zona longsor dengan metode resistivitas dan analisis stabilitas lereng untuk mitigasi bencana tanah longsor (studi kasus di Dusun Jawar, Desa Sri Mulyo, Kecamatan Dampit, Kabupaten Malang, Provinsi Jawa Timur). *Indonesian Journal of Applied Physics* 7(1): 1-36.
- Terlien, M. T. J. 1998. The determination of statistical and deterministic hydrological landslide-triggering thresholds. *Environmental Geology*, 35: 124-130.
- Tian, J., J. Wang, M. Dippold, Y. Gao, E. Blagodatskaya, and Y. Kuzyakov. 2016. Biochar affects soil organic matter cycling and microbial functions but does not alter microbial community structure in a paddy soil. *Science of the Total Environment*, 55(2016): 89-97.
- Tiwari, B. and B. Ajmera. 2011. A new correlation relating the shear strength of reconstituted soil to the proportions of clay minerals and plasticity characteristics. *Applied Clay Science* 2011(53): 48-57.

- Tran, V. Q. 2022. Predicting and investigating the permeability coefficient of soil with aided single machine learning algorithm. *Complexity*, 2022(1): 1-18.
- Tsai, T. L. 2008. The influence of rainstorm pattern on shallow landslide. *Environmental Geology*, 53: 1563-1569.
- Uematsu, Y. and A. Ushimaru. 2013. Topography- and management-mediated resource gradients maintain rare and common plant diversity around paddy terraces. *Ecological Applications*, 23(6): 1357-1366.
- Vergani, C. and F. Graf. 2015. Soil permeability, aggregate stability and root growth: a pot experiment from a soil bioengineering perspective. *Ecohydrology*, 9(5): 1-13.
- Wang, M., L. Rong, Y. Li, J. Huang, Y. Jiao, and X. Wei. 2024. Drainage of paddy terraces impacts structures and soil properties in the globally important agricultural heritage of Hani Paddy Terraces, China. *International Soil and Water Conservation Research*, 12(2024): 64-76.
- Williams, D. E. and N. T. Coleman. 1950. Cation exchange properties of plant root surface. *Plant and Soil* 1950(2): 243-256.
- Winterkorn, H. F. 1958. Theory and practice of soil densification. *Powers Apparatus and Systems*, 77(3): 1060-1068.
- Wiryasa, N. M. A. dan I. W. Sudarsana. 2009. Pemanfaatan lumpur lapindo sebagai bahan substitusi semen dalam pembuatan bata beton pejal. *Jurnal Ilmiah Teknik Sipil* 13(1): 39-46.
- Wulandari, E. S., Helmi, dan Gunawan. 2024. Kajian tingkat kerentanan banjir berdasarkan aspek biofisik lahan di Sub DAS Krueng Ireue Aceh Besar. *Jurnal Penelitian Progressif*, 3(1): 1-15.
- Yamamoto, S. 2008. Groundwater management in rice terraces: a case study of a lakeside community in Shiga Prefecture, Japan. *Local Environment*, 13(5): 449-460.
- Yang, C. D. and S. G. Lu. 2021. Effects of five different biochars on aggregation, water retention and mechanical properties of paddy soil: A field experiment of three-season crops. *Soil & Tillage Research*, 205(2021): 1-11.
- Yi, J., W. Qiu, W. Hu, H. Zhang, M. Liu, D. Zhang, T. Wu, P. Tian, and Y. Jiang. 2020. Effects of cultivation history in paddy rice on vertical water flows and related soil properties. 200: 1-12
- Yong, R. N. and B. P. Warkentin. 1975. Soil properties and behavior. *Developments In Geotechnical Engineering*, 5(1): 1-19.
- Ze^zere, J. L., T. Vaz, S. Pereira, and S. C. Oliveira. 2015. Rainfall thresholds for landslide activity in Portugal: a state of the art. *Environmental Earth Science*, 73: 2917-2936.
- Zhai, Q. and H. Raharjo. 2012. Determination of soil–water characteristic curve variables. *Computers and Geotechnics*, 42(2012): 37-43.

- Zhao, H., A. G. Shar, S. Li, Y. Chen, J. Shi, X. Zhang, and X. Tian. 2018. Effect of straw return mode on soil aggregation and aggregate carbon content in an annual maize-wheat double cropping system. *Soil & Tillage Research*, 175(2018): 178-186.
- Zolfahari, Z., M. R. Mosaddeghi, S. Ayoubi, and H. Kelishadi. 2015. Soil Atterberg limits and consistency indices as influenced by land use and slope position in Western Iran. *Journal of Mountain Science* 12(6): 1471-1483.