

DAFTAR PUSTAKA

- Al-Amoudi, O.S., Khan, K. dan Al-Kahtani, N.S. 2010. Stabilization of a Saudi calcareous marl soil. *Construction and Building Materials* 24 (10) : 1848–1854.
- Al-Taie, A., Disfani, M., Evans, R., Arulrajah, A. dan Horpibulsuk, S. 2016. Impact of curing on behaviour of basaltic expansive clay. *Road Materials and Pavement Design* 11: 1–22.
- Aldaood, A., Bouasker, M. dan Al-Mukhtar, M. 2014. Impact of wetting-drying cycles on the microstructure and mechanical properties of lime-stabilized gypseous soils. *Engineering Geology* 174: 11–21.
- Alhassan, M. dan Alhaji, M.M. 2017. Utilisation of Rice Husk Ash for Improvement of Deficient Soils in Nigeria. *Nigerian Journal of Technology (NIJOTECH)* 36: 386 – 394.
- ASTM, D. 1995. Standard Test Methods for Wetting and Drying Compacted Soil–Cement Mixtures. In *Annual Book of ASTM Standards*.
- ASTM, D. 1999. 6276-99, Standard Test Method for Using pH to Estimate the Soil-Lime Proportion Requirement for Soil Stabilization. In *Annual Book of ASTM Standards*.
- ASTM, D. 2009. Standard Test Methods for Unconfined Compressive Strength of Compacted Soil-Lime Mixtures, American Society for Testing and Materials. In *Annual Book of ASTM Standards*.
- Bagheri, Y., Ahmad, F. dan Ismail, M.A. 2014. Strength and mechanical behavior of soil–cement–lime–rice husk ash (soil–CLR) mixture. *Materials and Structures* 47 (1): 55–66.
- Baskara, I.B.G., Aribudiman, I.N. dan Tjerita, A.A.K.N. 2015. Pengaruh Penambahan Fiber Terhadap Parameter Daya Dukung Tanah Lempung. *Jurnal Teknik Sipil* 19 (1): 1–9.
- Bazyar, M.H., Ebrahimi, M., Lenjani, M.Z. dan Makarchian, M. 2017. The Effect of Rice Husk Ash on Mechanical Properties of Clayey Soils Stabilized with Lime in the Presence of Sulphate. *Journal of Engineering Geology* 11 (3): 23–52.
- Belchior, I.M.R., Casagrande, M.D. dan Zornberg, J.G. 2017. Swelling Behavior Evaluation of a Lime-Treated Expansive Soil through Centrifuge Test. *Journal of Materials in Civil Engineering* 29 (12) : 4017240.
- Budi, G.S., Ariwibowo, D.S. dan Jaya, A.T. 2002. Pengaruh Pencampuran Abu Sekam Padi Dan Kapur Untuk Stabilisasi Tanah Ekspansif. *Civil*

- Engineering Dimension* 4 (2) : 94–99.
- Chen, M., Shen, S.L., Arulrajah, A., Wu, H., Hou, D.W. dan Xu, Y.S. 2015. Laboratory evaluation on the effectiveness of polypropylene fibers on the strength of fiber-reinforced and cement-stabilized Shanghai soft clay. *Geotextiles and Geomembranes* 43 (6) : 515–523.
- Chen, R., dan Ng, C.W.W. 2013. Impact of wetting-drying cycles on hydro-mechanical behavior of an unsaturated compacted clay. *Applied Clay Science* 86: 38–46.
- Consoli, C.C., Vendruscolo, M.A., Fonini, A. dan Rosa, F.D. 2009. Fiber reinforcement effects on sand considering a wide cementation range. *Geotextiles and Geomembranes Journal* 27: 196–203.
- Consoli, N.C., Samaniego, R.A.Q. dan Villalba, N.M.K.. 2016. Durability, Strength, and Stiffness of Dispersive Clay-Lime Blends. *Journal of Materials in Civil Engineering* 28 (11): 1–11.
- Dang, L.C., Fatahi, B. dan Khabbaz, H. 2016. Behaviour of Expansive Soils Stabilized with Hydrated Lime and Bagasse Fibres. *Procedia Engineering* 143 : 658–665.
- Daud, N.N.N., Daud, M.N.M. dan Muhammed, A.S. 2018. Rice husk ash (RHA) as a partial cement replacement in modifying peat soil properties. In *AIP Conference Proceedings* 1930(1) : 20046.
- Eskişar, T., Altun, S. dan Kalipcilar, I. 2015. Assessment of strength development and freeze-thaw performance of cement treated clays at different water contents. *Cold Regions Science and Technology* 111: 50–59.
- Estabragh, A.R., Moghadas, M. dan Javadi, A.A. 2013. Effect of different types of wetting fluids on the behaviour of expansive soil during wetting and drying. *Soils and Foundations* 53 (5) : 617–627.
- Estabragh, A.R., Moghadas, M. dan Javadi, A.A. 2014. Mechanical behaviour of an expansive clay mixture during cycles of wetting and drying inundated with different quality of water. *European Journal of Environmental and Civil Engineering* 19 (3) : 278–289.
- Güllü, H., dan Khudir, A. 2014. Effect of freeze–thaw cycles on unconfined compressive strength of fine-grained soil treated with jute fiber, steel fiber and lime. *Cold Regions Science and Technology* 106–107: 55–65.
- Gümüşer, C., dan Şenol, A. 2010. Effect of Fly Ash and Polypropylene Fibers Content on the Soft Soils. *International Journal of Civil Engineering* 12 (2) : 27–30.
- Gupta, D., dan Kumar, A. 2016. Strength Characterization of Cement Stabilized and Fiber Reinforced Clay – Pond Ash Mixes. *International Journal of*

- Geosynthetics and Ground Engineering* 2 (32) : 1–11.
- Gurjar, L., Majumdar, K. dan Gupta, M. 2018. Experimental Analysis On Stabilization Of Black Cotton Soil Using Bagasse Ash , Lime & Quarry Dust. *International Research Journal of Engineering and Technology (IRJET)* 5 (2) : 1126–1129.
- Hafel, B. 2011. Pengaruh Ukuran Benda Uji Terhadap Kuat Tarik Belah Pada Tanah Dengan Campuran Kapur-Abu Sekam Padi Dan Serat Karung Plastik. Tugas Akhir. Universitas Muhammadiyah Yogyakarta.
- Hamidi, A., dan Hooresfand, M. 2013. Effect of Fiber Reinforcement on Triaxial Shear Behavior of Cement Treated Sand. *Geotextiles and Geomembranes* 36: 1–9.
- Ho, L.S., Nakarai, K., Duc, M., Kouby, A.L., Maachi, A. dan Sasaki, T. 2018. Analysis of strength development in cement-treated soils under different curing conditions through microstructural and chemical investigations. *Construction and Building Materials* 166: 634–646.
- Irmanzah, R. 2014. Pengaruh Serat Karung Plastik dan Kapur Terhadap Perubahan Nilai CBR Pada Tanah Lempung Lunak. *Jurnal Teknik Sipil dan Lingkungan* 4: 676–681.
- Jihad, N. 2013. Perilaku Kuat Geser Campuran Kapur Karbit Dan Abu Sekam Padi Yang Diperkuat Dengan Serat Plastik. Tugas Akhir. Universitas Muhammadiyah Yogyakarta.
- Jumandani, R.A. 2013. Uji Kuat Tarik Belah Pasir Dengan Stabilisasi Semen Dan Inklusi Serat Plastik. Tugas Akhir. Universitas Muhammadiyah Yogyakarta.
- Kalkan, E. 2011. Impact of wetting-drying cycles on swelling behavior of clayey soils modified by silica fume. *Applied Clay Science* 52 (4) : 345–352.
- Kamei, T., A. Ahmed, dan K. Ugai. 2013. Durability of soft clay soil stabilized with recycled Bassanite and furnace cement mixtures. *Soils and Foundations* 53 (1) : 155–165.
- Kampala, A., Horpibulsuk, S., Prongmanee, N. dan Chinkulkijniwat, A. 2014. Influence of Wet-Dry Cycles on Compressive Strength of Calcium Carbide Residue–Fly Ash Stabilized Clay. *Journal of Materials in Civil Engineering* 26 (4) : 633–643.
- Kang, G.O., Tsuchida, T. dan Kim, Y.S. 2017. Strength and stiffness of cement-treated marine dredged clay at various curing stages. *Construction and Building Materials* 132: 71–84.
- Laheza, E.Y. 2017. Pengaruh Siklus Basah - Kering Terhadap Kuat Tekan Bebas Tanah Lempung Yang Diperbaiki Dengan Kapur-Abu Sekam Padi Dan Serat Plastik. Tugas Akhir. Universitas Muhammadiyah Yogyakarta.

- Lenoir, T., Preteseille, M. dan Ricordel, S. 2016. Contribution of the fiber reinforcement on the fatigue behavior of two cement-modified soils. *International Journal of Fatigue* 93: 71–81.
- Li, J., Tang, C., Wang, D., Pei, X. dan Shi, B. 2014. Effect of Discrete Fibre Reinforcement on Soil Tensile Strength. *Journal of Rock Mechanics and Geotechnical Engineering* 6 (2) : 133–137.
- Li, L., Shao, W., Li, Y. dan Cetin, B. 2015. Effects of Climatic Factors on Mechanical Properties of Cement and Fiber Reinforced Clays. *Geotechnical and Geological Engineering* 33 (3) : 537–548.
- Malekzadeh, M. 2012. Effect of Polypropylene Fiber and Posidonia Oceanica Ash on the Behavior of Expansive Soils. Master's Thesis. Eastern Mediterranean University.
- Moayed, R.Z. 2013. Effect of wetting-drying cycles on CBR values of silty subgrade soil of Karaj railway. In *Proceedings of the 18th International Conference on Soil Mechanics and Geotechnical Engineering*. September 2-5 2013. Le Palais des Congrès de Paris, Paris, France. 1321–1324.
- Moghal, A.A.B., Chittoori, B.C.S. dan Basha, B.M. 2018. Effect of fibre reinforcement on CBR behaviour of lime-blended expansive soils : reliability approach. *Road Materials and Pavement Design* 19 (3) : 1–20.
- Mrabent, S.A.B., Hachichi, A., Souli, H., Taibi, S. dan Fleureau, J.M. 2015. Effect of lime on some physical parameters of a natural expansive clay from Algeria. *European Journal of Environmental and Civil Engineering* 21: 108–125.
- Muntohar, A.S. 2002. Utilization of Uncontrolled Burnt Rice Husk Ash in Soil Improvement. *Civil Engineering Dimension* 4 (2) : 100–105.
- Muntohar, A.S. 2005. Geotechnical Properties of Rice Husk Ash Enhanced Lime-Stabilized Expansive Clay. *Media Komunikasi Teknik Sipil* 13: 36–47.
- Muntohar, A.S. 2009. Influence of Plastic Waste Fibers on the Strength of Lime-Rice. *Civil Engineering Dimension* 11 (1) : 32–40.
- Muntohar, A.S. 2011. Effect of Specimen Size on the Tensile Strength Behavior of the Plastic Waste Fiber Reinforced Soil – Lime – Rice Husk Ash Mixtures. *Civil Engineering Dimension* 13 (2) : 82–89.
- Muntohar, A.S., dan Hantoro, G. 2000. Influence of the Rice Husk Ash and Lime on Engineering Properties of Clayey Sub-grade. *Electronic Journal of Geotechnical Engineering* 5: 1–13.
- Muntohar, A.S., Widianti, A., Hartono, E. dan Diana, W. 2013. Engineering Properties of Silty Soil Stabilized with Lime and Rice Husk Ash and Reinforced with Waste Plastic Fiber. *Journal of Materials in Civil*

- Engineering* 25 (9): 1260–1270.
- Muthukumar, M., dan Sekar, S.K. 2018. Swelling and Shrinkage Behaviour of Expansive Soil Blended with Lime and Fibres. *International Journal of Geotechnical Engineering* 12 (2) : 109–117.
- Neramitkornburi, A., Horpibulsuk, S., Shen, S.L., Chinkulkijniwat, A., Arulrajah, A. dan Disfani, M. 2015. Durability against wetting–drying cycles of sustainable Lightweight Cellular Cemented construction material comprising clay and fly ash wastes. *Construction and Building Materials* 77: 41–49.
- Pamungkas, V.P. 2013. Pengaruh Penambahan Serat Plastik Terhadap Kuat Tarik Belah Pada Tanah Pasir Dengan Campuran Kapur Dan Abu Sekam Padi. Tugas Akhir. Universitas Muhammadiyah Yogyakarta.
- Park, S.S. 2009. Effect of fiber reinforcement and distribution on unconfined compressive strength of fiber-reinforced cemented sand. *Geotextiles and Geomembranes* 27 (2) : 162–166.
- Pasculli, A., Sciarra, N., Esposito, L. dan Esposito, A.W. 2017. Effects of wetting and drying cycles on mechanical properties of pyroclastic soils. *Catena* 156: 113–123.
- Plé, O., dan Lê, T.N.H. 2012. Effect of polypropylene fiber-reinforcement on the mechanical behavior of silty clay. *Geotextiles and Geomembranes* 32: 1–6.
- Pradhan, P.K., Kar, R.K. dan Naik, A. 2012. Effect of Random Inclusion of Polypropylene Fibers on Strength Characteristics of Cohesive Soil. *Geotechnical and Geological Engineering* 30 (1) : 15–25.
- Rosenbalm, D., dan Zapata, C.E. 2016. Effect of Wetting and Drying Cycles on the Behavior of Compacted Expansive Soils. *Journal of Materials in Civil Engineering* 29 (1) : 1–9.
- Roustaei, M., Eslami, A. dan Ghazavi, M. 2015. Effects of freeze–thaw cycles on a fiber reinforced fine grained soil in relation to geotechnical parameters. *Cold Regions Science and Technology* 120: 127–137.
- Roy, A. 2014. Soil Stabilization using Rice Husk Ash and Cement. *International Journal of Civil Engineering Research* 5 (1): 49–54.
- Sabat, A.K. 2012. Effect of Polypropylene Fiber on Engineering Properties of Rice Husk Ash – Lime Stabilised Expansive Soil Effect of Polypropylene Fiber on Engineering Properties of Rice Husk Ash – Lime Stabilised Expansive Soil. *Electronic Journal of Geotechnical Engineering* 17: 651–660.
- Saride, S., Puppala, A.J. dan Chikyala, S.R. 2013. Swell-shrink and strength behaviors of lime and cement stabilized expansive organic clays. *Applied Clay Science* 85 (1) : 39–45.

- Soltani, A., Deng, A. dan Taheri, A. 2018. Swell-compression characteristics of a fiber-reinforced expansive soil. *Geotextiles and Geomembranes* 46 (2) : 183–189.
- Stoltz, G., Cuisinier, O. dan Masrouri, F. 2014. Weathering of a lime-treated clayey soil by drying and wetting cycles. *Engineering Geology* 181: 281–289.
- Tang, C.S., Cui, Y.J., Shi, B., Tang, A.M. dan Liu, C. 2011. Desiccation and cracking behaviour of clay layer from slurry state under wetting-drying cycles. *Geoderma*, Elsevier 166: 111–118.
- Tang, C.S., Shi, B., Cui, Y.J., Liu, C. dan Gu, K. 2012. Desiccation cracking behavior of polypropylene fiber-reinforced clayey soil. *Canadian Geotechnical Journal* 49 (9): 1088–1101.
- Tran, T.D., Cui, Y.J., Tang, A.M., Audiguier, M. dan Cojean, R. 2014. Effects of lime treatment on the microstructure and hydraulic conductivity of Héricourt clay. *Journal of Rock Mechanics and Geotechnical Engineering* 6 (5): 399–404.
- Triastuti, N.S. 2017. Expansive Soil Solution in the Villages at Trenggalek. In *AIP Conference Proceedings* 1903 (1) : 90002.
- Vitale, E., Deneele, D., Paris, M. dan Russo, G. 2017. Multi-scale analysis and time evolution of pozzolanic activity of lime treated clays. *Applied Clay Science* 141: 36–45.
- Wang, D.Y., Tang, C.S., Cui, Y.J., Shi, B. dan Li, J. 2016. Effects of wetting-drying cycles on soil strength profile of a silty clay in micro penetrometer tests. *Engineering Geology* 206: 60–70.
- Wardani, S.P.R., dan Muntohar, A.S. 2018. *Perbaikan Tanah*. Yogyakarta: LP3M UMY.
- Wibawa, A. 2013. Pengaruh Siklus Basah - Kering Terhadap Kuat Tekan Bebas Campuran Kapur Karbit Dan Abu Sekam Padi Dengan Dan Tanpa Serat Plastik. Tugas Akhir. Universitas Muhammadiyah Yogyakarta.
- Widianti, A., Hartono, E. dan Muntohar, A.S. 2007. Kekuatan Geser Campuran Tanah-Kapur-Abu Sekam Padi Dengan Inklusi Kadar Serat Karung Plastik Yang Bervariasi. *Jurnal Ilmiah Semesta Teknika* 10 (1) : 1–13.
- Wijaya, A.C. 2013. Perbaikan Kuat Tekan Bebas Lempung Dengan Campuran Limbah Karbit Dan Abu Sekam Padi. Tugas Akhir. Universitas Muhammadiyah Yogyakarta.
- Yazdandoust, F., dan Yasrobi, S.S. 2010. Effect of cyclic wetting and drying on swelling behavior of polymer-stabilized expansive clays. *Applied Clay Science* 50 (4) : 461–468.

- Yilmaz, Y. 2015. Compaction and strength characteristics of fly ash and fiber amended clayey soil. *Engineering Geology* 188: 168–177.
- Za, S.R. 2011. Karakteristik Kuat Tarik Belah Tanah Dengan Campuran Kapur Dan Serat Karung Plastik. Tugas Akhir. Universitas Muhammadiyah Yogyakarta.
- Zeng, Z., Lu, H. dan Zhao, Y. 2012. Wetting-drying effect of expansive soils and its influence on slope stability. *Applied Mechanics and Materials* 170: 889–893.
- Zhang, L., Wang, X.X. dan Zheng, G. 2008. Effect of Polypropylene Fibers on the Strength and Elastic Modulus of Soil-Cement. In *Proceedings of the 4th Asian Regional Conference on Geosynthetics*. June 17-20, 2008. Shanghai, China. 386–391.
- Zhang, Y., Johnson, A.E. dan White, D.J. 2016. Laboratory freeze-thaw assessment of cement, fly ash, and fiber stabilized pavement foundation materials. *Cold Regions Science and Technology* 122: 50–57.
- Zumrawi, M.M.E. 2015. Geotechnical Aspects for Roads on Expansive Soils. *International Journal of Science and Research* 4 (2) : 1475–1479.