

DAFTAR PUSTAKA

- Araujo, W. and Ledezma, C. (2020) 'Factors That Affect Liquefaction-Induced Lateral Spreading in Large Subduction Earthquakes', *Applied Sciences*, 10(18), p. 6503. Available at: <https://doi.org/10.3390/app10186503>.
- Arefpanah, S. and Sharafi, A. (2024) 'Analytical and experimental study on shaking effects for improved stone column foundations', *Proceedings of the Institution of Civil Engineers - Ground Improvement*, 177(4), pp. 255–272. Available at: <https://doi.org/10.1680/jgrim.22.00004>.
- Arif, M. and Ilpandari, I. (2022) 'EXPERIMENTAL STUDY OF FINE GRAIN CONTENT OF SOIL ON LIQUEFACTION POTENTIAL', *FROPIL (Forum Profesional Teknik Sipil)*, 10(2). Available at: <https://doi.org/10.33019/fropil.v10i2.3627>.
- van Ballegooy, S. *et al.* (2014) 'Assessment of Liquefaction-Induced Land Damage for Residential Christchurch', *Earthquake Spectra*, 30(1), pp. 31–55. Available at: <https://doi.org/10.1193/031813EQS070M>.
- Bayati, H. and Bagheripour, M.H. (2019) 'Shaking table study on liquefaction behaviour of different saturated sands reinforced by stone columns', *Marine Georesources & Geotechnology*, 37(7), pp. 801–815. Available at: <https://doi.org/10.1080/1064119X.2018.1492051>.
- Boulanger, R.W. and Idriss, I.M. (2014) 'CPT and SPT based liquefaction triggering procedures'.
- Buana, T.W. *et al.* (2019) *Atlas Zona Likuefaksi Indonesia*. Available at: <https://www.esdm.go.id/assets/media/content/content-atlas-zona-likuefaksi-indonesia.pdf>.
- Cilia, M.G., Mooney, W.D. and Nugroho, C. (2021) 'Field Insights and Analysis of the 2018 Mw 7.5 Palu, Indonesia Earthquake, Tsunami and Landslides', *Pure and Applied Geophysics*, 178(12), pp. 4891–4920. Available at: <https://doi.org/10.1007/s00024-021-02852-6>.
- Committee on Earthquake Engineering (1985) *Liquefaction of Soil During Earthquakes*. Washington D.C: National Academy Press.
- Das, B.M. and Ramana, G. V. (2011) *Principles of Soil Dynamics second edition*. Stamford: Cengage Learning.

- Dinata, I.A. *et al.* (2016) 'Liquefaction hazard analysis for infrastructure development in gulf of Jakarta', in, p. 030001. Available at: <https://doi.org/10.1063/1.4947384>.
- Dwiyantoro, W., Fathani, T.F. and Adi, A.D. (2023) 'Influence of Groundwater Table Fluctuation on Liquefaction Potential Analysis Using Cyclic Stress Approach', *IOP Conference Series: Earth and Environmental Science*, 1184(1), p. 012006. Available at: <https://doi.org/10.1088/1755-1315/1184/1/012006>.
- Farid, M., Mase, L.Z. and Fathani, T.F. (2024) 'The Investigation of Subsurface Beds using Microtremor and Geo-electric Methods in A Liquefied Area in Bengkulu City After The Bengkulu-Mentawai Earthquake', *Indonesian Journal on Geoscience*, 11(3), pp. 377–390. Available at: <https://doi.org/10.17014/ijog.11.3.377-390>.
- Hakam, A. and Suhelmidawati, E. (2013) 'Liquefaction Due to September 30th 2009 Earthquake in Padang', *Procedia Engineering*, 54, pp. 140–146. Available at: <https://doi.org/10.1016/j.proeng.2013.03.013>.
- Hakam, Abdul *et al.* (2018) 'Liquefaction analysis of abrasion protection structure in Padang', *MATEC Web of Conferences*. Edited by R. Haigh *et al.*, 229, p. 01018. Available at: <https://doi.org/10.1051/mateconf/201822901018>.
- Hartono, N. and Fathani, T.F. (2022) 'The Using of GIS to Delineate the Liquefaction Susceptibility Zones at Yogyakarta International Airport', *Civil Engineering Dimension*, 24(1), pp. 62–70. Available at: <https://doi.org/10.9744/ced.24.1.62-70>.
- Hartono, N. and Fathani, T.F. (2023) 'Design of Stone Column to Mitigate Soil Liquefaction: Cases Study of Yogyakarta International Airport', *Journal of the Civil Engineering Forum*, pp. 195–208. Available at: <https://doi.org/10.22146/jcef.5933>.
- Heykal, M., Ismanti, S. and Setiawan, H. (2024) 'Comparison of site classification using SPT and seismic downhole survey to evaluate liquefaction severity: A Case study in Serang-Panimbang Section III Toll Road Project', *IOP Conference Series: Earth and Environmental Science*, 1416(1), p. 012014. Available at: <https://doi.org/10.1088/1755-1315/1416/1/012014>.
- Hidayat, R.F. *et al.* (2020) 'Reconnaissance on Liquefaction-induced Flow Failure Caused by the 2018 Mw 7.5 Sulawesi Earthquake, Palu, Indonesia', *Journal of Engineering and Technological Sciences*, 52(1), pp. 51–65. Available at: <https://doi.org/10.5614/j.eng.technol.sci.2020.52.1.4>.

- Hutabarat, L.. *et al.* (2019) 'Land Subsidence Induced by the Rate of Consolidation of Marine Clay in Kamal Muara Northern Jakarta', *IOP Conference Series: Earth and Environmental Science*, 258, p. 012019. Available at: <https://doi.org/10.1088/1755-1315/258/1/012019>.
- Idriss, I.M. and Boulanger, R.W. (2006) 'Semi-empirical procedures for evaluating liquefaction potential during earthquakes', *Soil Dynamics and Earthquake Engineering*, 26(2–4), pp. 115–130. Available at: <https://doi.org/10.1016/j.soildyn.2004.11.023>.
- Irsyam, M. *et al.* (2020) 'Development of the 2017 national seismic hazard maps of Indonesia', *Earthquake Spectra*, 36(1S), pp. 112–136. Available at: <https://doi.org/10.1177/8755293020951206>.
- Ishihara, K. and Yoshimine, M. (1992) 'Evaluation of Settlements in Sand Deposits Following Liquefaction During Earthquakes', *Soils and Foundations*, 32(1), pp. 173–188. Available at: <https://doi.org/10.3208/sandf1972.32.173>.
- Iwasaki, T. *et al.* (1978) 'A Practical Method for Assessing Soil Liquefaction Potential Based on Case Studies at Various Sites in Japan', in *Proceedings of the 2nd International Conference on Microzonation for Safer Construction Research and Application*, pp. 885–896.
- Kang, G.-C., Chung, J.-W. and Rogers, J.D. (2014) 'Re-calibrating the thresholds for the classification of liquefaction potential index based on the 2004 Niigata-ken Chuetsu earthquake', *Engineering Geology*, 169, pp. 30–40. Available at: <https://doi.org/10.1016/j.enggeo.2013.11.012>.
- Kusumawardani, R. *et al.* (2021) 'Understanding of Petobo liquefaction flowslide by 2018.09.28 Palu-Donggala Indonesia earthquake based on site reconnaissance', *Landslides*, 18(9), pp. 3163–3182. Available at: <https://doi.org/10.1007/s10346-021-01700-x>.
- Lee, A., Oh, S. and Kwon, H. (2023) 'Development of a 2D Modified Liquefaction Potential Index Map Using Geophysical Data in Pohang, Korea', in *NSG2023 29th European Meeting of Environmental and Engineering Geophysics*. European Association of Geoscientists & Engineers, pp. 1–5. Available at: <https://doi.org/10.3997/2214-4609.202320052>.
- Liliwarti, - *et al.* (2020) 'Liquefaction Potential Map based on Coordinates in Padang City with

Google Maps Integration’, *JOIV: International Journal on Informatics Visualization*, 4(1), pp. 32–34. Available at: <https://doi.org/10.30630/joiv.4.1.312>.

Mase, L.Z. (2018) ‘Studi Keandalan Metode Analisis Likuefaksi Menggunakan SPT Akibat Gempa 8,6 Mw, 12 September 2007 di Area Pesisir Kota Bengkulu’, *Jurnal Teknik Sipil*, 25(1), p. 53. Available at: <https://doi.org/10.5614/jts.2018.25.1.7>.

Mase, L.Z. *et al.* (2023) ‘Analysis of ground response and potential seismic damage to sites surrounding Cimandiri Fault, West Java, Indonesia’, *Natural Hazards*, 119(3), pp. 1273–1313. Available at: <https://doi.org/10.1007/s11069-023-06157-w>.

Mase, L.Z., Tanapalungkorn, W., Anussornrajkit, P., *et al.* (2025) ‘Assessing liquefaction risk and hazard mapping in a high-seismic region: a case study of Bengkulu City, Indonesia’, *Natural Hazards*, 121(6), pp. 6597–6623. Available at: <https://doi.org/10.1007/s11069-024-07057-3>.

Mase, L.Z., Tanapalungkorn, W., Likitlersuang, S., *et al.* (2025) ‘Ground motion, liquefaction and hazard analysis at the Palu site during the 2018 Indonesian great earthquake’, *China Geology*, 8, pp. 1–23. Available at: <https://doi.org/10.31035/cg20240065>.

Mase, L.Z., Tanapalungkorn, W., Ueda, K., *et al.* (2025) ‘Non-linear Site Response Analysis of Liquefaction in the Port Area of Bengkulu City Due to Large Subduction Earthquakes’, *Transportation Infrastructure Geotechnology*, 12(2), p. 87. Available at: <https://doi.org/10.1007/s40515-025-00540-9>.

Misliniyati, R. *et al.* (2025) ‘Liquefaction Risk Assessment and Microzonation in Bengkulu Port Area After a Megathrust Earthquake’, *Geotechnical and Geological Engineering*, 43(3), p. 126. Available at: <https://doi.org/10.1007/s10706-025-03090-6>.

PSGN (2017) *Peta Sumber dan Bahaya Gempa Indonesia Tahun 2017*. Pusat Penelitian dan Pengembangan Perumahan dan Permukiman.

Qodri, M.F., Anggorowati, V.D.A. and Mase, L.Z. (2022) ‘Site-Specific Analysis to Investigate Response and Liquefaction Potential during the Megathrust Earthquake at Banten Province Indonesia’, *Engineering Journal*, 26(9), pp. 1–10. Available at: <https://doi.org/10.4186/ej.2022.26.9.1>.

Rahmawati, H.A., Prakoso, W.A. and Rahayu, A. (2020) ‘Vs and CPT based evaluation of location with high liquefaction damage during 2018 Palu earthquake’, *IOP Conference Series: Materials Science and Engineering*, 930(1), p. 012034. Available at:

<https://doi.org/10.1088/1757-899X/930/1/012034>.

- Ramakrishnan, D. *et al.* (2006) 'Mapping the liquefaction induced soil moisture changes using remote sensing technique: an attempt to map the earthquake induced liquefaction around Bhuj, Gujarat, India', *Geotechnical and Geological Engineering*, 24(6), pp. 1581–1602. Available at: <https://doi.org/10.1007/s10706-005-3811-1>.
- Sebaaly, G. and Rahhal, M.E. (2020) 'Assessment of Liquefaction Potential Index Using Deterministic and Probabilistic Approaches – A Case Study', in, pp. 34–46. Available at: https://doi.org/10.1007/978-3-030-34252-4_4.
- Somantri, A.K. *et al.* (2023) 'Analysis of Ground Response of Bandung Region Subsoils due to Predicted Earthquake Triggered by Lembang Fault, West Java Province, Indonesia', *Geotechnical and Geological Engineering*, 41(2), pp. 1155–1181. Available at: <https://doi.org/10.1007/s10706-022-02328-x>.
- Sonmez, H. and Gokceoglu, C. (2005) 'A liquefaction severity index suggested for engineering practice', *Environmental Geology*, 48(1), pp. 81–91. Available at: <https://doi.org/10.1007/s00254-005-1263-9>.
- Supartoyo, Surono and Putranto, E.T. (2014) 'Katalog Gempabumi Merusak di Indonesia Tahun 1612–2014'. Pusat Vulkanologi dan Mitigasi Bencana Geologi.
- Tohari, A. *et al.* (2023) 'Liquefaction potential analysis for Palu City based on CPT method', *IOP Conference Series: Earth and Environmental Science*, 1173(1), p. 012030. Available at: <https://doi.org/10.1088/1755-1315/1173/1/012030>.
- Turkandi, T. *et al.* (1992) *Peta Geologi Lembar Jakarta dan Kepulauan Seribu, Jawa*.
- Widia Pamungkas Isburhan, R. *et al.* (2019) 'Horizontal-to-Vertical Spectral Ratio (HVSr) Method for Earthquake Risk Determination of Jakarta City with Microtremor Data', *IOP Conference Series: Earth and Environmental Science*, 318(1), p. 012033. Available at: <https://doi.org/10.1088/1755-1315/318/1/012033>.
- Youd, T.L. (1973) *Liquefaction, flow, and associated ground failure*. Available at: <https://doi.org/10.3133/cir688>.
- Youd, T.L. (2018) 'Application of MLR Procedure for Prediction of Liquefaction-Induced Lateral Spread Displacement', *Journal of Geotechnical and Geoenvironmental Engineering*, 144(6). Available at: [https://doi.org/10.1061/\(ASCE\)GT.1943-5606.0001860](https://doi.org/10.1061/(ASCE)GT.1943-5606.0001860).

- Yuliet, R. *et al.* (2023) 'The influence of various parameters of physical and mechanical properties on susceptibility to liquefaction of sandy soils', *IOP Conference Series: Earth and Environmental Science*, 1173(1), p. 012021. Available at: <https://doi.org/10.1088/1755-1315/1173/1/012021>.
- Zhang, G., Robertson, P.K. and Brachman, R.W.. (2002) 'Estimating liquefaction-induced ground settlements from CPT for level ground', *Canadian Geotechnical Journal*, 39(5), pp. 1168–1180. Available at: <https://doi.org/10.1139/t02-047>.
- Zhuang, J. *et al.* (2025) 'Mudflows due to liquefaction triggered by earthquakes in terrains with gentle lower slopes: a case study', *Landslides*, 22(1), pp. 95–108. Available at: <https://doi.org/10.1007/s10346-024-02383-w>.

