

## DAFTAR PUSTAKA

- Abdullah, Z. A., & Susandini, A. (2018). Media Produksi (Geomembrane) Dapat Meningkatkan Kualitas dan Harga Jual Garam (Study Kasus: Ladang Garam Milik Rakyat di Wilayah Madura). 3(2).
- Andiani, Oktariadi, O., & Kurnia, A. (Ed.). (2018). Di balik pesona Palu: *Bencana melanda, geologi menata (Cetakan pertama)*. Badan Geologi.
- Andiny, A. N., Faris, F., & Adi, A. D. (2022). Analisis Potensi Likuefaksi dan Longsor Aliran Akibat Gempa Palu 2018 pada Area Jono Oge, Sulawesi Tengah. *Tesis Magister Teknik Pengelolaan Bencana Alam UGM*.
- Andrus, R. D., & H. Stokoe II, K. (2000). Liquefaction Resistance of Soils from Shear-Wave Velocity. *Journal of Geotechnical and Geoenvironmental Engineering*, 126(11 (November 2000)). [https://doi.org/10.1061/\(ASCE\)1090-0241\(2000\)126:11\(1015\)](https://doi.org/10.1061/(ASCE)1090-0241(2000)126:11(1015))
- Andrus, R. D., & Stoke II, K. H. (1997). Liquefaction Resistance Based on Shear Wave Velocity. Proceeding of the NCEER Workshop on - *Evaluation of Liquefaction Resistance of Soils*. National Center for Earthquake Engineering Research, State University of New York at Buffalo., Technical Report NCEER-97-0022, 89–128.
- Badan Standarisasi Nasional. (2008). SNI 4153:2008 Cara Uji Penetrasi Lapangan dengan SPT. BSN.
- Badan Standarisasi Nasional. (2019). SNI 1726:2019 *Tata Cara Perencanaan Ketahanan Gempa untuk Struktur Bangunan Gedung dan Nongedung*. BSN. [dokinfo@bsn.go.id](mailto:dokinfo@bsn.go.id)
- Balai Air Tanah. (2021). Update Pemodelan Air Tanah untuk Mitigasi Likuefaksi Palu. Balai Air Tanah.



Barfal, S. S., Das, M. M., Joshi, M., Joshi, R., Kumar, K., Kumar, D., & Rai, Y. K. (2022).

Response of water springs towards an earthquake: A case study from Sikkim Himalaya.

*Journal of Applied Geophysics*, 206, 104792.

<https://doi.org/10.1016/j.jappgeo.2022.104792>

BPSDM PUPR. (t.t.). Pengenalan Geostudio. Kementerian Pekerjaan Umum dan Perumahan Rakyat.

Bresciani, E., Shandilya, R. N., Kang, P. K., & Lee, S. (2020). Well radius of influence and radius of investigation: What exactly are they and how to estimate them? *Journal of Hydrology*, 583, 124646. <https://doi.org/10.1016/j.jhydrol.2020.124646>

Buana, T. W., Hermawan, W., Rahdiana, R. N., Widyaningrum, R., & Wahyudin. (2019). *Atlas Zona Kerentanan Likuefaksi Indonesia*. Badan Geologi.

Cetin, K. O., Seed, R. B., Der Kiureghian, A., Tokimatsu, K., Harder, L. F., Kayen, R. E., & Moss, R. E. S. (2004). Standard Penetration Test-Based Probabilistic and Deterministic Assessment of Seismic Soil Liquefaction Potential. *Journal of Geotechnical and Geoenvironmental Engineering*, 130(12), 1314–1340. [https://doi.org/10.1061/\(ASCE\)1090-0241\(2004\)130:12\(1314\)](https://doi.org/10.1061/(ASCE)1090-0241(2004)130:12(1314))

Cetin, K. O., Seed, R. B., Kayen, R. E., Moss, R. E. S., Bilge, H. T., Ilgac, M., & Chowdhury, K. (2018). *SPT-based probabilistic and deterministic assessment of seismic soil liquefaction triggering hazard*. *Soil Dynamics and Earthquake Engineering*, 115, 698–709. <https://doi.org/10.1016/j.soildyn.2018.09.012>

Cox, S. C., van Ballegooy, S., Rutter, H. K., Harte, D. S., Holden, C., Gulley, A. K., Lacrosse, V., & Manga, M. (2021). Can artesian groundwater and earthquake-induced aquifer leakage exacerbate the manifestation of liquefaction? *Engineering Geology*, 281, 105982. <https://doi.org/10.1016/j.enggeo.2020.105982>

Das, B. M., & Ramana, G. V. (2011). *Principles of soil dynamics (2nd ed)*. Cengage Learning.

DGWR, M., & JICA. (2019). JICA Survey For Disaster Information Collection in Indonesia.  
Ministry Public Work and Housing.

DGWR, M., & JICA. (2023). Countermeasure for Liquefaction Landslide Area in Balaroa,  
Petobo, Jono Oge, Sibalaya Design Concept. Project Management and Supervision  
Consultant to Support PIU Directorate General of Water Resources (DGWR).

Domenico, P. A., & Schwartz, F. W. (1998). *Physical and chemical hydrogeology (2nd ed)*.  
Wiley.

Dwiyanti, N. E., Irnanda, V., Giamboro, W. S., Handini, A. M., Karimah, A. A., Setyowati, R.,  
& Tobing, E. (2020). Analisa Hubungan Magnitudo Gempa Bumi Terhadap Hasil  
Frekuensi Dominan pada Rangkaian Gempa Aceh 2004, Yogyakarta 2006, Palu dan  
Lombok 2018 sebagai Upaya Mitigasi Bencana.

Elshada, P. N. (2023). Geotextile Non Woven, Fungsi, Aplikasi dan Ukuran. Geotextile Non  
Woven, Fungsi, Aplikasi dan Ukuran. [https://petrane.co.id/geotextile-non-woven?gclid=Cj0KCQjwpompBhDZARIsAFD\\_Fp\\_So6kJBeg5fomdA7NtEAKiLGDeqbE7bhC94j0Ft3z5l2Bia-VYMaAlthEALw\\_wcB](https://petrane.co.id/geotextile-non-woven?gclid=Cj0KCQjwpompBhDZARIsAFD_Fp_So6kJBeg5fomdA7NtEAKiLGDeqbE7bhC94j0Ft3z5l2Bia-VYMaAlthEALw_wcB)

GEO-SLOPE, I. L. (2014). *Dynamic Modeling with QUAKE/W*. GEO-SLOPE International  
Ltd, Canada.

Google Inc. (2023). Peta Google Earth Kota Palu [Map]. Google.

Gratchev, I., & Jeng, D.-S. (2019). *Soil mechanics through project-based learning*. CRC Press  
/ Taylor & Francis Group.

Green, M. J. (2015). *Hydrogeological Investigation Of Earthquake Related Springs In The  
Hillsborough Valley Christchurch, New Zealand*. University of Canterbury.



- Gulley, A. K., Dudley Ward, N. F., Cox, S. C., & Kaipio, J. P. (2013). Groundwater responses to the recent Canterbury earthquakes: A comparison. *Journal of Hydrology*, 504, 171–181. <https://doi.org/10.1016/j.jhydrol.2013.09.018>
- Hardiyatmo, H. C. (2022). *Rekayasa gempa untuk analisis struktur dan geoteknik* (Edisi pertama). UGM Press.
- Hughes, M. W. (2015). The sinking city: Earthquakes increase flood hazard in Christchurch, New Zealand. *GSA Today*, 4–10. <https://doi.org/10.1130/GSATG221A.1>
- Hunt, R. E. (2007). *Geologic Hazards: A Field Guide for Geotechnical Engineers* (0 ed.). CRC Press. <https://doi.org/10.1201/9781420052510>
- Hutabarat, D., & Bray, J. (2021a). Effective Stress Analysis of Liquefaction Sites and Evaluation of Sediment Ejecta Potential (PEER Reports) [PEER Reports]. *Pacific Earthquake Engineering Research Center, University of California, Berkeley, CA*. <https://doi.org/10.55461/UCSE4741>
- Hutabarat, D., & Bray, J. (2021b). Effective Stress Analysis of Liquefaction Sites and Evaluation of Sediment Ejecta Potential (PEER Reports) [PEER Reports]. *Pacific Earthquake Engineering Research Center, University of California, Berkeley, CA*. <https://doi.org/10.55461/UCSE4741>
- Idriss, I. M., & Boulanger, R. W. (2004). *Semi-empirical procedures for evaluating liquefaction potential during earthquakes*. *Soil Dynamics and Earthquake Engineering*, 26(2–4), 115–130. <https://doi.org/10.1016/j.soildyn.2004.11.023>
- Idriss, I. M., & Boulanger, R. W. (2008). *Soil Liquefaction During Earthquake*: Vol. MNO-12. Earthquake Engineering Research Institute.
- Indiana Department of Natural Resources. (2021). *Potentiometric Surface Mapping (1:48000) Overview*. An official website of the Indiana State Government.

<https://www.in.gov/dnr/water/ground-water-wells/assessment-maps-and-publications/potentiometric-surface-mapping-148000/potentiometric-surface-mapping-148000-overview/>

Ishihara, K. (1985). Stability of natural deposits during earthquakes. *Proc. 11th International Conference on Soil Mechanics and Foundation Engineering, San Francisco*, 1, 321-376.

Iwasaki, T., Tokida, K., & Tatsuoka, F. (1984). Soil Liquefaction Potential Evaluation with Use of the Simplified Procedure.

Jalil, A. (2020). A Study On The Liquefaction Potential In Banda Aceh City After The 2004 Sumatera Earthquake. *International Journal of GEOMATE*, 18(65).  
<https://doi.org/10.21660/2020.65.94557>

Jalil, A., Fathani, T. F., Satyarno, I., & Wilopo, W. (2021). Liquefaction in Palu: The cause of massive mudflows. *Geoenvironmental Disasters*, 8(1), 21.  
<https://doi.org/10.1186/s40677-021-00194-y>

Kanno, T. (2006). A New Attenuation Relation for Strong Ground Motion in Japan Based on Recorded Data. *Bulletin of the Seismological Society of America*, 96(3), 879–897.  
<https://doi.org/10.1785/0120050138>

Kayen, R., Moss, R. E. S., Thompson, E. M., Seed, R. B., Cetin, K. O., Kiureghian, A. D., Tanaka, Y., & Tokimatsu, K. (2013). Shear-Wave Velocity–Based Probabilistic and Deterministic Assessment of Seismic Soil Liquefaction Potential. *Journal of Geotechnical and Geoenvironmental Engineering*, 139(3), 407–419.  
[https://doi.org/10.1061/\(ASCE\)GT.1943-5606.0000743](https://doi.org/10.1061/(ASCE)GT.1943-5606.0000743)

Kementerian Energi dan Sumber Daya Mineral Republik Indonesia. (2017). Peraturan Menteri ESDM No. 02 Tahun 2017 Tentang Cekungan Air Tanah Di Indonesia.



(2021, Maret 12). Desain Spektra Indonesia 2021. <http://rsa.ciptakarya.pu.go.id>

Kementerian Pekerjaan Umum dan Perumahan Rakyat Republik Indonesia. (2015). Peraturan Menteri Pekerjaan Umum dan Perumahan Rakyat Republik Indonesia Nomor 14 /PRT/M/2015 Tentang Kriteria dan Penetapan Status Daerah Irigasi. JDIH Kementerian PUPR. [https://jdih.pu.go.id/detail-dokumen/264/1#div\\_cari\\_detail](https://jdih.pu.go.id/detail-dokumen/264/1#div_cari_detail)

Khitam, M. T., Suyanto, I., & Hartantyo, E. (2021). Penggunaan Metode Multichannel Analysis of Surface Waves (MASW) sebagai Identifikasi Potensi Likuefaksi Tanah di Teluk Pacitan Bagian Barat Mohammad Tamamul Khitam. Skripsi Universitas Gadjah Mada.

Kiyota, T., Furuichi, H., Hidayat, R. F., Tada, N., & Nawir, H. (2020). Overview of long-distance flow-slide caused by the 2018 Sulawesi earthquake, Indonesia. *Soils and Foundations*, 60(3), 722–735. <https://doi.org/10.1016/j.sandf.2020.03.015>

Koster, J. P., & Tsuchida, T. (1998). Earthquake Induced Liquefaction of Fine-Grained Soils—Considerations from Japanese Research. *Departement of The Army, Wasihington DS*.

Krahn, J. (2004). *Seepage Modeling with SEEP/W An Engineering Methodology (first)*. GEO-SLOPE International Ltd.

Kusumajati, B., Rifa'i, A., & Istiarto. (2023a). Relief Well as Liquefaction Mitigation Option in Mpanau, Sigi, Central Sulawesi, Indonesia. *IOP Conference Series: Earth and Environmental Science, The 2nd International Conference on Disaster Management and Climate Change 2023*.

Kusumajati, B., Rifa'i, A., & Istiarto. (2023b). The Effect of Leaking Aquifer on Liquefaction Potential in Mpanau, Sigi, Central Sulawesi, Indonesia. *3rd International Conference on Technology, Informatics, and Engineering (Icon-TINE 2023)*.



Kusumajati, B., Rifa'i, A., & Istiarto, I. (2023c). Identification of Re-Liquefaction Potential

Based SPT and MASW Data in Mpanau, Sigi After The Earthquake 2018. *The Third International Conference of Construction, Infrastructure, and Materials (ICCIM 2023)*, 429(E3S Web of Conferences 429, 04006 (2023)).  
<https://doi.org/10.1051/e3sconf/202342904006>

Loke, M. H. (2000). *Electrical Imaging Surveys for Environmental and Engineering Studies*.

A Practical Guide to 2-D and 3-D Surveys, 61. <http://www.terrajp.co.jp/lokenote.pdf>.

Lowrie, W. (2007). *Fundamentals of geophysics (2nd ed)*. Cambridge University Press.

<http://dx.doi.org/10.1017/CBO9780511807107>

Manzanal, D., Bertelli, S., Lopez-Querol, S., Rossetto, T., & Mira, P. (2021). Influence of fines

content on liquefaction from a critical state framework: The Christchurch earthquake case study. *Bulletin of Engineering Geology and the Environment*, 80(6), 4871–4889.

<https://doi.org/10.1007/s10064-021-02217-2>

Muhanifah, H. (2022). Analisis Kondisi Lapisan Tanah Terhadap Potensi Terjadi Kerusakan

Parah Pada Tanah Akibat Likuefaksi (Studi Kasus: Balaroa, Palu, Sulawesi Tengah).

Fakultas Teknik, Universitas Gadjah Mada.

Namira, S. A., Fathani, T. F., & Adi, A. D. (2021). Analisis Potensi Likuefaksi berdasarkan

data NSPT di Kota Palu Sulawesi Tengah. Tesis Magister Teknik Sipil UGM.

Nurdin, S., Harianto, T., Aswad, S., Arsyad, A., & Alexsander, S. (2019). Liquefaction Disaster

Mitigation and Geohydrology Conditions, Lessons from The Palu Earthquake Magnitude 7.4 Mw 28 September 2018. *23rd Annual National Conference on Geotechnical Engineering, 23(Jakarta)*.



- Park, C. B., Miller, R. D., Xia, J., & Ivanov, J. (2007). Multichannel analysis of surface waves (MASW)—Active and passive methods. *The Leading Edge*, 26(1), 60–64.  
<https://doi.org/10.1190/1.2431832>
- Partono, W., Irsyam, M., Nazir, R., Asrurifak, M., Kistiani, F., & Sari, U. C. (2021). Pengembangan Peta Percepatan Gerakan Tanah Puncak Kota Semarang berdasarkan Peraturan Gempa Tahun 2019. 27.
- Petitta, M., Mastrorillo, L., Preziosi, E., Banzato, F., Barberio, M. D., Billi, A., Cambi, C., De Luca, G., Di Carlo, G., Di Curzio, D., Di Salvo, C., Nanni, T., Palpacelli, S., Rusi, S., Saroli, M., Tallini, M., Tazioli, A., Valigi, D., Vivalda, P., & Doglioni, C. (2018). Water-table and discharge changes associated with the 2016–2017 seismic sequence in central Italy: Hydrogeological data and a conceptual model for fractured carbonate aquifers. *Hydrogeology Journal*, 26(4), 1009–1026. <https://doi.org/10.1007/s10040-017-1717-7>
- Plummer, C. (2015). *Physical geology* (15 ed.). McGraw Hill.
- Port and Harbour Research Institute. (1997). *Handbook on liquefaction remediation of reclaimed land*. In *Port and Harbour Research Institute* (Ed.), Handbook on liquefaction remediation of reclaimed land. A.A. Balkema.
- Pratama, A. A., Hendrayana, H., & Pawenrusi, F. (2023). Interaksi Air Tanah dan Air Permukaan Pada Daerah Likuefaksi Jono Oge dan Sekitarnya di Kabupaten Sigi, Sulawesi Tengah. Tesis MAGISTER TEKNIK GEOLOGI UGM.
- Pratama, A., Fathani, T. F., & Satyarno, I. (2022). Liquefaction Potential Analysis and Mitigation Plan in Gumbasa Irrigation Area around Jono Oge after 2018 Central Sulawesi Earthquake. Tesis Magister Teknik Pengelolaan Bencana Alam UGM.





- Pryambodo, D. G., & Sudirman, N. (2019). Identifikasi Likuefaksi di Kawasan Pesisir Kota Padang dengan Metoda Geolistrik 2D. *Jurnal Segara*, 15(3).  
<https://doi.org/10.15578/segara.v15i3.7732>
- Putra Santosa, D. P., Dwi Hadian, M. S., & Zakaria, Z. (2021). Hydrostratigraphy And Aquifer Geometry In Palu Groundwater Basin, Central Sulawesi Province After Earthquake. *Jurnal Sumber Daya Air*, 17(1), 25–38. <https://doi.org/10.32679/jsda.v17i1.695>
- Quigley, M. C., Bastin, S., & Bradley, B. A. (2013). *Recurrent liquefaction in Christchurch, New Zealand, during the Canterbury earthquake sequence*. *Geology*, 41(4), 419–422.  
<https://doi.org/10.1130/G33944.1>
- Rahayu, W., Nurizkatilah, & Bahsan, E. (2021). Analysis of liquefaction potential in Lolu Village, Palu using SPT method and laboratory test of grain size distribution. *IOP Conference Series: Earth and Environmental Science*, 622(1), 012016.  
<https://doi.org/10.1088/1755-1315/622/1/012016>
- Rocscience Inc. (2023). *Settle3D Liquefaction Theory Manual*. Rocscience Inc.  
<https://www.rocscience.com/assets/verification-and-theory/Settle3/Settle3D-v4-Theory.pdf>
- Salmasi, F., Nourani, B., Abraham, J., & Norouzi, R. (2021). Numerical investigation of relief well performance for decreasing uplift pressure under embankment dams. *International Journal of Environmental Science and Technology*, 18(9), 2819–2830.  
<https://doi.org/10.1007/s13762-020-03030-2>
- Santoso, D. (2000). *Pengantar Teknik Geofisika (TG-210)*. Penerbit ITB.
- Sanz de Ojeda, A., Alhama, I., & Sanz, E. (2019). Aquifer Sensitivity to Earthquakes: The 1755 Lisbon Earthquake. *Journal of Geophysical Research: Solid Earth*, 124(8), 8844–8866. <https://doi.org/10.1029/2019JB017753>



- Seed, H. B., & Idriss, I. M. (1971). Simplified Procedure for Evaluating Soil Liquefaction Potential. *Journal of the Soil Mechanics and Foundations Division*, ASCE 97, SM9, 1249–1273.
- Septiadi, D. R., Hardiyatmo, H. C., & Faris, F. (2023). Study of soil liquefaction potential at Anutapura General Hospital, Palu City, Central Sulawesi Province. *IOP Conference Series: Earth and Environmental Science*, 1244(1), 012026. <https://doi.org/10.1088/1755-1315/1244/1/012026>
- Siahaan, S. P. (2015). Percobaan Potensi Likuefaksi I pada Tanah Pasir Seragam Dengan Permodelan Alat di Laboratorium. Universitas Andalas, 9.
- Sompotan, A. (2012). *Struktur Geologi Sulawesi*. Perpustakaan Sains Kebumihan ITB, Bandung.
- Sucuoğlu, H., & Akkar, S. (2014). Basic Earthquake Engineering: From Seismology to Analysis and Design. *Springer International Publishing*. <https://doi.org/10.1007/978-3-319-01026-7>
- Sukanto R. (1973). Reconnaissance geological map of Palu area, Sulawesi. Scale 1:250.000. Geological Survey of Indonesia.
- Syukri, M. (2011). Geoelectrical Characterization for liquefaction at coastal in South Aceh. *Proceeding of The Annual International Conference Syiah Kuala University* 2011, 1(2), 133–138.
- Telford, W. M., Geldart, L. P., & Sheiff, R. E. (2004). *Applied Geophysics 2nd Edition*. Cambridge University Press. <https://doi.org/10.1017/cbo9781139167932.012>
- Thein, P. S., Pramumijoyo, S., Brotopuspito, K. S., Kiyono, J., Wilopo, W., Furukawa, A., & Setianto, A. (2014). Estimation of Seismic Ground Motion and Shaking Parameters

- Based on Microtremor Measurements at Palu City, Central Sulawesi Province, Indonesia. <https://doi.org/10.5281/zenodo.1092938>
- Todd, D. K. (2005). *Groundwater Hydrology*. John Wiley & Sons Inc.
- Tong, Y., Liu, L., Wang, X., & Li, Y. (2013). Revision of Handbook of Hydrogeology (2<sup>nd</sup> Edition). *Journal of Groundwater Science and Engineering*, 1(2), 41–47. <https://doi.org/10.26599/JGSE.2013.9280018>
- USGS. (2023). Latest Earthquakes. The United States Geological Survey, 2023.
- Van Ballegooy, S., Cox, S. C., Agnihotri, R., Reynolds, T., Thurlow, C., Scott, D. M., Begg, J. G., McCahon, I., van Ballegooy, S., Agnihotri, R., Reynolds, T., Thurlow, C., Limited, T., Box, P. O., Cox, S., Rutter, H., Scott, D., Begg, J., & McCahon, I. (2013). Median water table elevation in Christchurch and surrounding area after the 4 September 2010 Darfield Earthquake. GNS Science Report, Auckland.
- Wang, W. S. (1979). Some Finding in Soil Liquefaction. Water Conservancy and Hydroelectric Power Scientific Research Institute.
- Widodo, L. E., Simangunsong, G. M., Iskandar, I., & Prasetyo, S. H. (2019). Peran Akuifer Tertekan Dalam Eskalasi Likuefaksi Palu Akibat Gempa Palu Tanggal 28 September 2018 – Sebuah Hipotesis. *Pertemuan Ilmiah Tahunan Ke-4 Perhimpunan Ahli Air Tanah Indonesia*, 12.
- Wijanarko, D., Adi, A. D., & Rifa'i, A. (2023). Karakterisasi dan Mikrozonasi Potensi Likuefaksi Akibat Tekanan Air Pori Tinggi di Lokasi Lumpur Sidoarjo. Tesis Magister Teknik Pengelolaan Bencana Alam UGM.
- Xu, B., He, N., & Li, D. (2019). Study on the treatments and countermeasures for liquefiable foundation. *MATEC Web of Conferences*, 272, 01012. <https://doi.org/10.1051/mateconf/201927201012>



Youd, T. L., I. M., Andrus, R. D., Arango, I., Castro, G., Christian, J. T., Dobry, E., Finn, W. D.

L., Harder Jr., L. F., Hynes, M. E., Ishihara, K., Koester, J. 169 P., Liao, S. S. C.,  
 Marcusson III, W. F., Martin, G. R., Mitchell, J. K., Moriwaki, Y., Power, M. S.,  
 Robertson, P. K., Seed, R. B., and Stokoe II, K. H., & Idriss, T. L. (2001). Liquefaction  
 resistance of soils: Summary report from the 1966 NCEER and 1998 NCEER/NSF  
 workshops on evaluation of liquefaction resistance of soils. *J. Geotechnical and  
 Geoenvironmental Eng.* 127(10), 817–833. 10.1061/(ASCE)1090-  
 0241(2001)127:10(817)

Youd, T. L., Tinsley, J. C. , Perkins, D. M. , King, E. J. , and Preston, R. F. (1979).  
*Liquefaction Potential Map of San Fernando Valley, California* (Circular, hlm. 807,  
 37–48) [Circular]. Geological Survey Circular (United States).

Zakariya, A. (2022). Pengaruh Potensi Likuefaksi dan Mitigasi Sistem Fondasi Bored Pile  
 Jembatan Kretek 2 Yogyakarta. Universitas Gadjah Mada Yogyakarta.

Zeffitni. (2013). Potensi Air Tanah di Cekungan Air Tana (CAT) Palu Berdasarkan Satuan  
 Hidromorfologi dan Hidrogeologi. *Jurnal Geografi*, Vol 11(22), 97–106.

Zeffitni, Basir-Cyio, M., Napitupulu, M., & Worosuprojo, S. (2020). Spatial analysis of the  
 liquefaction vulnerability zone based on the phreatic level at the Palu groundwater  
 basin, Central Sulawesi Province. *Journal of Physics: Conference Series*, 1434(1),  
 012019. <https://doi.org/10.1088/1742-6596/1434/1/012019>

Zhai, Y., Cao, X., Jiang, Y., Sun, K., Hu, L., Teng, Y., Wang, J., & Li, J. (2021). Further  
 Discussion on the Influence Radius of a Pumping Well: A Parameter with Little  
 Scientific and Practical Significance That Can Easily Be Misleading. *Water*, 13(15),  
 2050. <https://doi.org/10.3390/w13152050>