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Foundation Engineering, Geotechnical Earthquake Engineering, Seismic Design of Foundations, Soil-Structure Interaction

期刊論文 (Journal Papers)

1. Chiou, J.S.*, Huang, J.S., Chen, C.L., and Chen, C.H. (2021, Feb). Shaking table testing of two single piles of different stiffnesses subjected to liquefaction-induced lateral spreading. *Engineering Geology*, 105956. MOST 105-2625-M-002-024. 本人為第一作者、通訊作者。
2. Chiou, J.S.*, Hu, W.S., and Jheng, Y.W. (2021, Jan). Practical dynamic analysis model of rocking foundations under earthquake excitation. *Soil Dynamics and Earthquake Engineering*, 106383. (SCI). MOST 104-2221-E-002-218. 本人為第一作者、通訊作者。
3. Chiou, J.S.*, and Wei, W.T. (2021, Jan). Numerical investigation of pile-head load effects on the negative skin friction development of a single pile in consolidating ground. *Acta Geotechnica*, online. (SCI). 國立臺灣大學: NTU-CC-108L892507. 本人為第一作者、通訊作者。
4. Chiou, J.S.*, and You, J.Q. (2020, Nov). Three-dimensional finite element analysis of laterally loaded bridge caisson foundations in gravelly soil. *Acta Geotechnica*, 15(11), 3151-3166. (SCIE). MOST 107-2221-E-0002-046. 本人為第一作者、通訊作者。
5. Chiou, J.S.*, Hung, W.Y., Lee, Y.T., and Young, Z.H. (2020, Sep). Combined dynamic structure-pile-soil interaction analysis considering inertial and kinematic effects. *Computers and Geotechnics*, 125, 103671. (SCIE). MOST 106-2221-E-002-087. 本人為第一作者、通訊作者。
6. Chiou, J.S.*, and You, J.Q. (2020, May). Theoretical solutions of laterally loaded fixed-head piles in elastoplastic soil considering pile-head flexural yielding. *Canadian Geotechnical Journal*, 57(5), 650-660. (SCI). MOST 104-2221-E-002-218. 本人為第一作者、通訊作者。
7. Chiou, J.S.*, and Tsai, C.C. (2020, Feb). Analysis of in situ bridge columns with exposed caisson foundations in a gravel stratum under lateral loading. *Advances in Structural Engineering*, 23(3), 424-437. (SCI). MOST 100-2221-E-492-017. 本人為第一作者、通訊作者。
8. Hwang, Y.W., Chiou, J.S.*, and Ge, L. (2019, Sep). Application of system identification for dynamic characteristics of rocking foundations. *Journal of GeoEngineering*, 14(3), 167-178. (EI). MOST 140-2221-E-002-218. 本人為通訊作者。
9. Chiou, J.S. (2019, Aug). Simplified plastic settlement analysis of nonballasted slab railroad

- track foundations on fine-grained soil. *Journal of the Chinese Institute of Engineers*, 42(7), 632-642. (SCI). 本人為第一作者、通訊作者。
10. Chiou, J.S.*, Jheng, Y.W., and Hung, H.H. (2019, Jun). Numerical simulation of bridge piers with spread footings under earthquake excitation. *Earthquakes and Structures*, 16(6), 691-704. (SCI). MOST 104-2221-E-002-218. 本人為第一作者、通訊作者。
 11. Chiou, J.S.*, Xu, Z.W., Tsai, C.C., and Hwang, J.H. (2018, May). Lateral cyclic response of an aluminum model pile in sand. *Marine Georesources & Geotechnology*. (SCI). 本人為第一作者、通訊作者。
 12. Chiou, J.S.*, Chen, C.H., and Hwang, Y.W. (2018, Apr). Pushover and shaking table tests on a rocking-governed column-footing model on dry dense sand. *Journal of the Chinese Institute of Engineers*, 41(3), 247-258. (SCI). MOST 102-2625-M-492-001. 本人為第一作者、通訊作者。
 13. Chiou, J.S.*, You, T.R., Tsai, C.C., and Hwang, J.H. (2017, Oct). Performance of laterally loaded piles in improved coal ash deposit. *Soils and Foundations*, 57, 882-891. (SCI). 本人為第一作者、通訊作者。
 14. Tsai, C.C., Chang, W.S., and Chiou, J.S.* (2017, Oct). Enhancing prediction of ground response at the Turkey Flat geotechnical array. *Bulletin of the Seismological Society of America*, 107(5), 2043–2054. (SCI).
 15. Chiou, J.S.*, Lin, H.S., Yeh, F.Y., and Sung, Y.C. (2016, Aug). Plastic settlement evaluation of embedded railroads under repeated train loading. *Journal of GeoEngineering*, 11(2), 97-107. (EI). 本人為第一作者、通訊作者。
 16. Tsai, C.C., Lin, W.C., and Chiou, J.S.* (2016, Apr). Identification of dynamic soil properties through shaking table tests on a large saturated sand specimen in a laminar shear box. *Soil Dynamics and Earthquake Engineering*, 83, 59-68. (SCI).

研討會論文 (Conference Papers)

1. Chen, C.L., and Chiou, J.S.* (2019, Oct). Determination of nonlinear dynamic properties of sand from centrifuge shaking table testing. The 32nd KKHTCNN Symposium on Civil Engineering, Daejeon, Korea.
2. Fu, Y.W., and Chiou, J.S.* (2019, Oct). Seismic damage analysis of pile foundations considering ground movement. The 32nd KKHTCNN Symposium on Civil Engineering, Daejeon, Korea.
3. Chiou, J.S.*, Huang, T.J., and Chen, C.H. (2019, Jun). Shaking table testing on pile response due to lateral spreading. 7th International Conference on Earthquake Geotechnical Engineering, Roma, Italy. MOST 105-2625-M-002-024. 本人為第一作者、通訊作者。
4. Jheng, Y.W., Hu, W.S., and Chiou, J.S.* (2018, Nov). Simulation of seismic responses of a column-footing model under shaking table tests. The Thirty-First KKHTCNN Symposium on Civil Engineering, Kyoto, Japan.
5. Chiou, J.S.*, Hung, W.Y., Lee, Y.T., and Young, Z.H. (2018, Jun). Analysis of dynamic

- responses of an extended pile under centrifuge shaking table testing. The Eleventh U.S. National Conference on Earthquake Engineering, Los Angeles, California, USA. MOST 106-2221-E-002-087. 本人為第一作者、通訊作者。
6. Jheng, Y.W., Chiou, J.S.*, and Hung, H.H. (2017, Nov). Simulation of rocking responses of bridge piers with spread foundations. The 30th KKHTCNN Symposium on Civil Engineering, Taipei, Taiwan.
 7. Tsai, C.C., and Chiou, J.S.* (2017, Nov). Simulation of in situ laterally loaded on caisson foundations. The 30th KKHTCNN Symposium on Civil Engineering, Taipei, Taiwan.
 8. Chiou, J.S.*, Huang, Y.W., and Ge, L. (2017, Jul). Identification of dynamic characteristics of a rocking foundation model on shaking table testing. 3rd International Conference on Performance-based Design in Earthquake Geotechnical Engineering (PBD-III), Vancouver, Canada. MOST 104-2221-E-002-218. 本人為第一作者、通訊作者。
 9. Hwang, Y.W., Chiou, J.S.*, and Ge, L. (2016, Sep). Evaluation of effective damping for a rocking foundation model under shaking table testing. 7th Japan-Taiwan Workshop on Geotechnical Hazards from Large Earthquakes and Heavy Rainfall, PingTung, Taiwan.
 10. 林庭輝、邱俊翔 (2020 年 09 月)。土壤潛變行為之數值模擬。第 18 屆大地工程學術研究討論會，屏東,台灣。國立臺灣大學：NTU-CC-109L893205。
 11. 簡翰鈺、邱俊翔 (2020 年 09 月)。剛性沉箱基礎受複合載重下之彈塑性反應解析解。第 18 屆大地工程學術研究討論會，屏東,台灣。科技部：107-2221-E-002-046。
 12. 陳靖霖、邱俊翔 (2020 年 09 月)。側潰地盤中樁在未液化土層之側向流動力。第 18 屆大地工程學術研究討論會，屏東,台灣。科技部：108-2628-E-002-004-MY3。
 13. 游家奇、邱俊翔 (2018 年 11 月)。側向荷載群樁之模擬分析。中華民國第 14 屆結構工程及第 4 屆地震工程研討會，台中。
 14. 李奕霆、楊宗翰、邱俊翔、洪汶宜 (2017 年 09 月)。離心機振動台樁基礎模型受振反應之數值分析。第十七屆中華民國大地工程研討會，宜蘭。