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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.*, Fu, Y.W., and Lee, Y.W. (2022, Feb). Pseudostatic analysis for seismic responses of extended piles considering inertial and kinematic effects. *Engineering Structures*, 252, 113572. (SCI). MOST 108-2628-E-002-004-MY3. 本人為第一作者、通訊作者.
2. Chiou, J.S.*, Hu, W.S., and Lee, T.C. (2021, Oct). Numerical investigation of seismic performance of bridge piers with spread footings considering pier plastic hinging and footing rocking, sliding, and settlement. *Engineering Structures*, 245, 112821. MOST 104-2221-E-002-218. 本人為第一作者、通訊作者.
3. Chiou, J.S.*, and Chien, H.Y. (2021, Sep). Analytical interaction diagram for lateral responses of a rigid pile in homogeneous overconsolidated clay. *Journal of Geotechnical and Geoenvironmental Engineering, ASCE*, 147(9), 05021008. MOST 108-2628-E-002-004-MY3. 本人為第一作者、通訊作者.
4. Chiou, J.S.*, and Wei, W.T. (2021, Jun). Numerical investigation of pile-head load effects on the negative skin friction development of a single pile in consolidating ground. *Acta Geotechnica*, 16(6), 1867-1878. (SCIE). 國立臺灣大學: NTU-CC-108L892507. 本人為第一作者、通訊作者.
5. 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*, 281, 105956. (SCIE). MOST 105-2625-M-002-024. 本人為第一作者、通訊作者.
6. 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.
7. 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.
8. 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.
9. 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.
10. 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。

11. 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。
12. 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。
13. 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。
14. 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*, 36(5), 554-563. (SCI). 本人為第一作者、通訊作者。
15. 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。
16. 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。
17. 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).
18. 謝旭昇、林卓民、林婷媚、邱俊翔、夏沛禹、李忠錦 (2021 年 06 月)。高層建築基礎設計用之地盤反力係數。地工技術。
19. 邱俊翔 (2019 年 06 月)。日本鐵路基礎構造物設計規範簡介與橋梁群樁基礎耐震性能分析示範例。地工技術, 160(6), 5-14。本人為第一作者、通訊作者。

研討會論文 (Conference Papers)

1. Raja, M.A., and Chiou, J.S.* (2022, Jan). Seismic analysis of extended piles in sand considering effect of scouring and effect of water as added mass. International Conference on Civil & Environmental Engineering (ICCEE), University Tunku Abdul Rahman, Malaysia (06-07.01.2022). MOST 108-2628-E-002-004-MY3. 本人為通訊作者。
2. Chiou, J.S.*, and Fu, Y.W. (2020, Sep). Dynamic damage analysis of extended piles of bridge structures under seismic loading. 17th World Conference on Earthquake Engineering, 17WCEE, Sendai, Japan - September 13th to 18th 2020. MOST 108-2628-E-002-004-MY3. 本人為第一作者、通訊作者。
3. 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.
4. 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.

5. 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。
6. 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.
7. 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。
8. 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.
9. 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.
10. 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。
11. 李子婕、邱俊翔 (2021 年 11 月)。淺基礎橋墩受震反應及性能評估。中華民國力學學會第四十五屆全國力學會議 (CTAM 2021)，新北市。
12. 李以雯、邱俊翔 (2021 年 11 月)。樁受地盤變位反應分析。中華民國力學學會第四十五屆全國力學會議 (CTAM 2021)，新北市。
13. 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。
14. 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。
15. 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。
16. 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。
17. 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。