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

期刊論文 (Journal Paper)

1. Chiou, J.S.*, and Tsai, C.C. (2019, Sep). Analysis of in situ bridge columns with exposed caisson foundations in a gravel stratum under lateral loading. *Advances in Structural Engineering*, DOI: 10.1177/1369433219872441. (SCI). MOST 100-2221-E-492-017. 本人為第一作者、通訊作者.
2. Hwang, Y.W., Chiou, J.S.*, and Ge, Louis (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.
3. 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.
4. 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.
5. Chiou, J.S.*, and You, J.Q. (2019, Jun). Theoretical solutions of laterally loaded fixed-head piles in elastoplastic soil considering pile-head flexural yielding. *Canadian Geotechnical Journal*. (SCI). MOST 104-2221-E-002-218. 本人為第一作者、通訊作者.
6. 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.
7. 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.
8. 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。
9. 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).
10. 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。
11. 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).
12. 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。
13. 陳正興、柯永彥、邱俊翔 (2015 年 03 月) 。沉箱基礎設計規範之評析與側向阻抗之簡化分析模式。地工技術，143(3), 7-20。

研討會論文 (Conference Paper)

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. Chiou, J.S.*, Chen, C.H., Huang, Y.W., and Chen, C.H. (2015, Nov). Shaking table testing on a column-footing model. 6th International Conference on Earthquake Geotechnical Engineering, Christchurch, New Zealand. MOST 102-2625-M-492-001. 本人為第一作者、通訊作者.
11. 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。
12. 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。