

Publications (papers, books) related to Press-in Technology (Jan. 2020~Dec. 2022)

NO.	Authors	Year of Publication	Title	Published in	Volume/Page	Language	Access links (URL) for reference
1	Doubrovsky, M., Dubravina, V.	2020	Physical Modelling of Steel Tubular Piles Installation into Sandy Soil	Bases and Foundations. Issue 41, Kyiv, Kyiv National University of Civil Engineering.	Issue 41 pp. 14-21	Ukrainian	https://www.researchgate.net/publication/354041946_Physical_modeling_of_steel_tubular_piles_installation_into_sandy_soil
2	Hoang, LT., Matsumoto, T.	2020	Long-term Behavior of Piled Raft Foundation Models Supported by Jacked-in Piles on Saturated Clay	Soils and Foundations	Vol. 60, Issue 1 pp. 198-217	English	https://www.sciencedirect.com/science/article/pii/S0038080620310398?via%3Dihub
3	Ishihara, Y., Haigh, S., Koseki, J.	2020	Assessment of Base Capacity of Open-ended Tubular Piles Installed by the Rotary Cutting Press-in Method	Soils and Foundations	Vol. 60, Issue 5 pp. 1189-1201	English	https://www.sciencedirect.com/science/article/pii/S0038080620337173
4	Ishihara, Y., Ogawa, N., Mori, Y. et al.	2020	Simplified Static Vertical Loading Test on Sheet Piles Using Press-in Piling Machine	Japanese Geotechnical Society Special Publication, 8th Japan-China Geotechnical Symposium	pp. 245-250	English	https://www.istage.ist.go.jp/article/jgssp/8/7/8_v08.i32/article
5	Ishihara, Y., Yasuoka, H., Shintaku, S.	2020	Application of Press-in Method to Coastal Levees in Kochi Coast as Countermeasures Against Liquefaction	Geotechnical Engineering Journal of the SEAGS & AGSSEA	Vol. 51, No. 1 pp. 79-88	English	https://www.academia.edu/42340743/Application_of_Press_in_Method_to_Coastal_Levees_in_Kochi_Coast_as_Countermeasures_Against_Liquefaction
6	Kasama, K., Yamamoto, S., Ohno, M. et al.	2020	Seismic Damage Analysis on the River Levees Reinforced with Steel Sheet Pile by the 2016 Kumamoto Earthquake	Japanese Geotechnical Journal	Vol. 15, Issue 2 pp. 395-404	Japanese	https://www.istage.ist.go.jp/article/jgs/15/2/15_395/article/-char/en
7	Kato, T., Kato, R., Nishimura, M. et al.	2020	Design Method of Cantilever Steel Pipe Sheet-Pile River Revetment Reinforced with Partial Solidification Soil Improvement	Journal of Japan Society of Civil Engineers, Ser. B3 (Ocean Engineering)	Vol. 76, Issue 2 pp. I_420-I_425	Japanese	https://www.istage.ist.go.jp/article/jsceoe/76/2/76_I_420/article/-char/en
8	Momiyama, T., Taenaka, S., Hara, T. et al.	2020	Study on Reinforcement Method of Small Earth Dams Using Steel Sheet Piles — Verification of Reinforcement Effect Against the Liquefaction through the Shaking Test —	Transactions of The Japanese Society of Irrigation, Drainage and Rural Engineering	Vol. 88, Issue 1 pp. I_47-I_58	Japanese	https://www.istage.ist.go.jp/article/jsidre/88/1/88_I_47/article/-char/en
9	Saleem, MA., Malik, AA., Kuwan, J.	2020	Eng Shape and Rotation Effect on Steel Pipe Pile Installation Effort and Bearing Resistance	Geomechanics and Engineering	Vol. 23, Issue 6 pp. 523-533	English	https://doi.org/10.12989/gae.2020.23.6.523
10	Takuma, T., Kajino, K., Nagano, M.	2020	Prevention of Landslides with Rows of Pressed-in Pipe Piles on Steep Slope	Proceedings of 2020 Deep Foundations Institute Annual Conference	pp. 374-383	English	https://www.proceedings.com/57951.html
11	Takuma, T., Kajino, K., Nagano, M.	2020	Landslide Mitigation for Bridge Piers on an Unstable Slope with Rows of Pressed-in Pipe Piles	Proceedings of 2020 Annual International Bridge Conference	pp. 7-14	English	https://www.proceedings.com/57707.html
12	Takuma, T., Kajino, K., Nozaki, T. et al.	2020	Construction of Large and Deep Bridge Pier Foundations with Pressed-in Pipe Pile Cells	Proceedings of 2020 ASCE Annual GeoCongress	pp. 163 - 174	English	https://ascelibrary.org/doi/10.1061/9780784482780.016
13	Takuma, T., Nagano, M., Vaz, I.	2020	Repair of a Flood-damaged Subway Tunnel with Pressed-in Sheet Piles in New York City's Congested Streets	Proceedings of 2020 ASCE Metropolitan Section Annual Geotechnical Seminar	10p	English	https://www.ascemetsection.org/images/files/geotech/2020_seminar/Repair_of_a_Flood-damaged_Subway_Tunnel_with_Pressed-in_Sheet_Piles_in_New_York_Citys_Congested_Streets.pdf
14	Yamazaki, H., Kikuchi, Y., Noda, S. et al.	2020	Unit Inner Friction Resistance and Unit Resistance of Actual part of Open-Ended Piles Based on the Double-Pile Model Pile Experiment	Journal of Japan Society of Civil Engineers, Ser. B3 (Ocean Engineering)	Vol. 76, Issue 2 pp. I_450-I_455	Japanese	https://www.istage.ist.go.jp/article/jsceoe/76/2/76_I_450/article/-char/en
15	Yang, ZX., Gao, YY., Jardine R. J. et al.	2020	Large Deformation Finite-Element Simulation of Displacement-Pile Installation Experiments in Sand	Journal of Geotechnical and Geoenvironmental Engineering	Vol. 146, Issue 6	English	https://ascelibrary.org/doi/abs/10.1061/(ASCE)GT.1943-5606.0002271
16	Zhang, Y., Yang, X., Wu, W. et al.	2020	Torsional Complex Impedance of Pipe Pile Considering Pile Installation and Soil Plug Effect	Soil Dynamics and Earthquake Engineering	Vol. 131	English	https://www.sciencedirect.com/science/article/pii/S026772611930805X

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17	Dobrovsky, M., Dubravina, V.	2021	Model Testing of the “Pile-Soil” Interaction Under Axial Force	Herald of Odessa Academy of Civil Engineering, Odessa.	Vol. 83 pp. 102-111	English	https://www.sciencegate.app/document/10.31650/2415-377x-2021-83-102-111
18	Dobrovsky, M., Kusik, L., Dubravina, V.	2021	Bearing Capacity of Tubular Piles: Technological Improvements and Model Testing	Advances in Geoengineering along the Belt and Road. BRWSG 2021. Lecture Notes in Civil Engineering, Springer, Singapore.	Vol. 230 pp. 137-154	English	https://doi.org/10.1007/978-981-16-9963-4_11
19	Fujiwara, K., Ogawa, N., Nakai, K.	2021	3-D Numerical Analysis of Partial Floating Sheet-Pile Method as Countermeasure Liquefaction	Journal of JSCE	Vol. 9, Issue 1 pp. 138-147	English	https://www.istage.ist.go.jp/article/journalofjsce/9/1/9_138/article/-char/ja/
20	Ishihara, Y., Okada, K.	2021	Automatic Operation of Press-in piling Machine and Estimation of Subsurface Information by Using Press-in Piling Data	Symposium on Construction Machinery and Methods	pp. 15-20	Japanese	https://icmanet.or.jp/icma2019wide/wp-content/uploads/2021/11/04.pdf
21	Kikuchi, Y.	2021	Development of Tenacious Breakwaters and Coastal Levees	Journal of Japan Society of Civil Engineers	Vol. 69, No. 3 No.758 pp. 11-15	Japanese	N/A
22	Kuroyanagi, N., Ito, A., Yamazaki, M.	2021	Vertical Bearing Capacity of Sandy Ground Reinforced with Expansion Steel Pipe Pile	Journal of Structural and Construction Engineering (Transactions of AIJ)	Vol. 86, Issue 779 pp. 89-96	Japanese	https://www.istage.ist.go.jp/article/aijs/86/779/86_89/article/-char/en
23	Maeda, T., Shimada, Y., Takahashi, S. et al.	2021	Development of Design Method for Inclined Braceless Excavation Support Applicable to Deep Excavation	Journal of Japan Society of Civil Engineers, Ser. C (Geosphere Engineering)	Vol. 77, Issue 1 pp. 1-17	Japanese	https://www.istage.ist.go.jp/article/isceige/77/1/77_1/article/-char/en
24	Nakai, K., Fujiwara, K., Ogawa, N.	2021	Seismic Performance Evaluation of PFS Method by Soil-Water Coupled Finite Deformation Analysis	International Journal of GEOAMTE	Vol. 22, No. 89 pp. 94-99	English	https://geomatejournal.com/geomate/article/view/3018
25	Sharif, Y. M., Brown, M. J., Cerfontaine, B. et al.	2021	Effects of Screw Pile Installation on Installation Requirements and In-Service Performance Using the Discrete Element Method	Canadian Geotechnical Journal	Vol. 58, No. 9	English	https://cdnsiencepub.com/doi/abs/10.1139/cgj-2020-0241
26	Takuma, T., Kajino, K., Nozaki, T. et al.	2021	Building a Tall Self-standing Retaining Wall into a Steep Slope with Pressed-in Pipe Piles	Proceedings of 2021 International Foundations Congress and Equipment Expo	pp. 75-84	English	https://ascelibrary.org/doi/book/10.1061/9780784483411
27	Takuma, T., Nagano, M.	2021	Diverting Volcanic Debris Flow with Pressed-in Sheet Piles Installed in Lava Rock	Proceedings of 2021 GeoExtreme Conference	pp. 504-512	English	https://ascelibrary.org/doi/book/10.1061/9780784483701
28	Takuma, T., Nagano, M.	2021	Enhancing Coastal Levee’s Resiliency against Strong Earthquakes and Tsunamis with Pressed-in Piles	Proceedings of 2021 GeoExtreme Conference	pp. 21-33	English	https://ascelibrary.org/doi/10.1061/9780784483701.003
29	Takuma, T., Nozaki, T., Nagano, M.	2021	Constructing Tsunami Walls with Pressed-in Sheet and Pipe Pile Combi-walls	Proceedings of 2021 Deep Foundations Institute Annual Conference	pp. 446-457	English	https://www.proceedings.com/62294.html
30	Truong, Q.B., Vu, A.T., Pham H.K. et al.	2021	Numerical Modelling on Settlement Influence of Highway Embankment on Adjacent Ground	Modelling and Methods of Structural Analysis, Moscow 2021	Paper 98 (Section 3); under publication of the proceedings	English	N/A
31	Yang, Y., Tanimoto, S., Kiriyaama, T.	2021	Centrifuge Modelling for Seismic Retrofit Evaluation of Bridge Abutment Pile Foundation in Liquefied Ground	Journal of Japan Society of Civil Engineers, Ser. A1 (Structural Engineering & Earthquake Engineering (SE/EE))	Vol. 77, Issue 4 pp. I_184-I_195	Japanese	https://www.istage.ist.go.jp/article/isceiseee/77/4/77_I_184/article/-char/en

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32	Doubrovsky, M., Dubravina, V., Shokarev, V. et al.	2022	Ensuring the Piles Bearing Capacity Under Pressing Loads	Proceedings of the 20th International Conference on Soil Mechanics and Geotechnical Engineering– Rahman and Jaksa (Eds)	pp. 3247-3252	English	N/A
33	Fellenius, B., Tan, SA.	2022	Increase of CPT Cone Resistance in Sand Due to Installation of Press-In Piles	DFI Journal	Vol. 6, Issue 1	English	https://doi.org/10.37308/DFIUnl.20220209.249
34	Haigh, A.	2022	Performance of Implant Structures	University of Cambridge Department of Engineering	52p	English	N/A
35	Ho, HM., Malik, AA., Kuwano, J. et al.	2022	Experimental and Numerical Study on Pressure Distribution under Screw and Straight Pile in Dense Sand	International Journal of Geomechanics	Vol. 22, Issue 9	English	https://doi.org/10.1061/(ASCE)GM.1943-5622.0002520
36	Hoang, LT., Dao, KX., Xiong X. et al.	2022	Performance Analysis of a Jacked-in Single Pile and Pile Group in Saturated Clay Ground	Soils and Foundations	Vol. 62, Issue 1	English	https://www.sciencedirect.com/journal/soils-and-foundations
37	Kido, R., Suezawa, R., Sawamura, Y. et al.	2022	Experimental Investigation of Bearing Mechanism of Closed- and Open-Ended Piles Supported by Thin Bearing Layer Using X-ray Micro CT	Soils and Foundations	Vol. 62, Issue 4	English	https://www.sciencedirect.com/science/article/pii/S0038080622000877?dgcid=raven_sd_via_email
38	Kyle, B. O’Hara., Alejandro, Martinez.	2022	Load Transfer Directionality of Snakeskin-Inspired Piles during Installation and Pullout in Sands	Journal of Geotechnical and Geoenvironmental Engineering	Vol. 148, No. 12	English	https://ascelibrary.org/doi/abs/10.1061/%28ASCE%29GT.1943-5606.0002929
39	Lehane, BM., Liu, Z., Bittar, E. J. et al.	2022	CPT-Based Axial Capacity Design Method for Driven Piles in Clay	Journal of Geotechnical and Geoenvironmental Engineering	Vol. 148, No. 9	English	https://ascelibrary.org/doi/abs/10.1061/%28ASCE%29GT.1943-5606.0002847
40	Li, W., Deng, L., Chalaturnyk, R.	2022	Centrifuge Modeling of the Behaviour of Helical Piles in Cohesive Soils from Installation and Axial Loading	Soils and Foundations	Vol. 62, Issue 3	English	https://www.sciencedirect.com/science/article/pii/S003808062200049X?dgcid=raven_sd_via_email
41	Miyanohara, T., Suzuki, N.	2022	Technical Evaluation for the Design and Construction Method for Rotary Press-in Piling Method (Gyropress Method)	The Foundation Engineering & Equipment, Monthly 50 (12)	pp. 45-47	Japanese	https://iss.ndl.go.jp/books/R000000004-I032567953-00
42	Suzuki, N.	2022	Geotechnical Mapping using Press-in Piling Data to Estimate Bearing Layer	11th International Symposium on Field Monitoring in Geomechanics (ISFMG2022)	7p	English	https://www.issmge.org/publications/publication/geotechnical-mapping-using-press-in-piling-data-to-estimate-bearing-layer
43	Suzuki, N.	2022	Three-parameter Lognormal Distribution to Estimate Ultimate Bearing Capacity of Pile Foundations with Extrapolation of Load-settlement Curves	Proceedings of the 8th International Symposium on Geotechnical Safety and Risk (ISGSR), December 2022, Newcastle, Australia	6p	English	https://rpsonline.com.sg/proceedings/isgsr2022/html/01-009.html
44	Taenaka, S., Mochida, Y.	2022	Reinforcement Method of River Dykes by Steel Sheet-piles Against Earthquakes and Floods	Journal of Japan Society of Civil Engineers	Vol. 70, No. 3 Ser.No.770 pp. 14-17	Japanese	N/A
45	Tamboura, H. H., Isobe, K., Ohtsuka, S.	2022	End Bearing Capacity of A Single Incompletely End-Supported Pile Based on the Rigid Plastic Finite Element Method with Non-Linear Strength Property Against Confining Stress	Soils and Foundations	Vol. 62, Issue 4	English	https://www.sciencedirect.com/science/article/pii/S0038080622000907?dgcid=raven_sd_via_email
46	Vu, A.T., Matsumoto, T., Xiong, X. et al.	2022	Behaviours of Batter-pile Foundations Subjected to Combination of Vertical Load and Cyclic Horizontal Loading	International Journal of Geotechnical Engineering	Vol. 16, Issue 5 pp. 592-605	English	https://doi.org/10.1080/19386362.2021.1929696
47	Wang, K., Cui, C., Ren, J. et al.	2022	Model Testing Study on Engineering Performances of Circular Helicoid Piles During the Whole Process of Installation and Bearing in Sandy Soil	Soils and Foundations	Vol. 62, Issue 3	English	https://www.sciencedirect.com/science/article/pii/S0038080622000580?dgcid=raven_sd_via_email