Lubao Luan

List of Publications by Year
in descending order

64	1,439	361413 20	361022 35
papers	citations	h-index	g-index

65	65	65	533
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Influence of Particle Breakage on Critical State Line of Rockfill Material. International Journal of Geomechanics, 2016, 16, .	2.7	177
2	Wave Propagation in a Pipe Pile for Low-Strain Integrity Testing. Journal of Engineering Mechanics - ASCE, 2011, 137, 598-609.	2.9	74
3	Dynamic analysis of pile groups subjected to horizontal loads considering coupled pile-to-pile interaction. Computers and Geotechnics, 2020, 117, 103276.	4.7	69
4	Detailed amount of particle breakage in nonuniformly graded sands under one-dimensional compression. Canadian Geotechnical Journal, 2020, 57, 1239-1246.	2.8	60
5	Field Tests on Bearing Characteristics of X-Section Pile Composite Foundation. Journal of Performance of Constructed Facilities, 2012, 26, 180-189.	2.0	57
6	Three-dimensional effects in low-strain integrity testing of piles: analytical solution. Canadian Geotechnical Journal, 2016, 53, 225-235.	2.8	56
7	Vertical dynamic response of a pipe pile in saturated soil layer. Computers and Geotechnics, 2014, 61, 57-66.	4.7	46
8	Vertical dynamic response of a pile embedded in a poroelastic soil layer overlying rigid base. Acta Geotechnica, 2021, 16, 977-983.	5.7	42
9	Lateral dynamic response of a pipe pile in saturated soil layer. International Journal for Numerical and Analytical Methods in Geomechanics, 2016, 40, 159-184.	3.3	41
10	High-frequency interference in low strain integrity testing of large-diameter pipe piles. Science China Technological Sciences, 2011, 54, 420-430.	4.0	39
11	Grouted gravel column-supported highway embankment over soft clay: case study. Canadian Geotechnical Journal, 2015, 52, 1725-1733.	2.8	39
12	Vertical impedance of an endâ€bearing pile in viscoelastic soil. International Journal for Numerical and Analytical Methods in Geomechanics, 2015, 39, 676-684.	3.3	38
13	Vertical Vibration of a Pipe Pile in Viscoelastic Soil Considering the Three-Dimensional Wave Effect of Soil. International Journal of Geomechanics, 2016, 16, .	2.7	38
14	A continuum-based model on axial pile-head dynamic impedance in inhomogeneous soil. Acta Geotechnica, 2021, 16, 3339-3353.	5.7	35
15	Vertical vibration of an elastic pile embedded in poroelastic soil. Soil Dynamics and Earthquake Engineering, 2015, 77, 177-181.	3.8	32
16	Vertical response of a thin-walled pipe pile embedded in viscoelastic soil to a transient point load with application to low-strain integrity testing. Computers and Geotechnics, 2015, 70, 50-59.	4.7	31
17	A modified analytical solution of soil stress distribution for XCC pile foundations. Acta Geotechnica, 2014, 9, 529-546.	5.7	30
18	Torsional dynamic response of a largeâ€diameter pipe pile in viscoelastic saturated soil. International Journal for Numerical and Analytical Methods in Geomechanics, 2014, 38, 1724-1743.	3.3	28

#	Article	IF	Citations
19	Kinematic response of pipe piles subjected to vertically propagating seismic P-waves. Acta Geotechnica, 2021, 16, 895-909.	5.7	28
20	Three-Dimensional Effects in Low-Strain Integrity Testing of Large Diameter Pipe Piles. Journal of Engineering Mechanics - ASCE, 2016, 142, .	2.9	26
21	Experimental study on the pile group-soil vibration induced by railway traffic under the inclined bedrock condition. Acta Geotechnica, 2020, 15, 3613-3620.	5.7	21
22	Time-domain solution for transient dynamic response of a large-diameter thin-walled pipe pile. Earthquake Engineering and Engineering Vibration, 2015, 14, 239-251.	2.3	19
23	Comparative Study on Seismic Response of Pile Group Foundation in Coral Sand and Fujian Sand. Journal of Marine Science and Engineering, 2020, 8, 189.	2.6	19
24	Comparative study of Y-shaped and circular floating piles in consolidating clay. Canadian Geotechnical Journal, 2016, 53, 1483-1494.	2.8	18
25	A revised solution for the horizontal vibration of an endâ€bearing pile in viscoelastic soil. International Journal for Numerical and Analytical Methods in Geomechanics, 2016, 40, 1890-1900.	3.3	18
26	Development of a threeâ€dimensional soil model for the dynamic analysis of endâ€bearing pile groups subjected to vertical loads. International Journal for Numerical and Analytical Methods in Geomechanics, 2019, 43, 1784-1793.	3.3	17
27	Transverse seismic response of endâ€bearing pipe piles to Sâ€waves. International Journal for Numerical and Analytical Methods in Geomechanics, 2022, 46, 1919-1940.	3.3	17
28	Torsional vibration of a pipe pile in transversely isotropic saturated soil. Earthquake Engineering and Engineering Vibration, 2016, 15, 509-517.	2.3	16
29	Shaking Table Tests on Seismic Responses of Pile-soil-superstructure in Coral Sand. Journal of Earthquake Engineering, 2022, 26, 3461-3487.	2.5	16
30	Study on horizontal bearing characteristics of pile foundations in coral sand. Canadian Geotechnical Journal, 2021, 58, 1928-1942.	2.8	16
31	Model tests on XCC-piled embankment under dynamic train load of high-speed railways. Earthquake Engineering and Engineering Vibration, 2018, 17, 581-594.	2.3	15
32	Limit lateral resistance of XCC pile group in undrained soil. Acta Geotechnica, 2020, 15, 1673-1683.	5.7	15
33	Development of a coupled pile-to-pile interaction model for the dynamic analysis of pile groups subjected to vertical loads. Acta Geotechnica, 2020, 15, 3261-3269.	5.7	15
34	Mechanical characteristics and particle breakage of coral sand under one-dimensional repeated loading. Acta Geotechnica, 2022, 17, 3117-3130.	5.7	15
35	Detailed amount of particle breakage in multi-sized coral sands under impact loading. European Journal of Environmental and Civil Engineering, 2020, , 1-10.	2.1	14
36	A pâ€“y curve model for laterally loaded XCC pile in soft clay. Acta Geotechnica, 2020, 15, 3229-3242.	5.7	14

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37	Simplified threeâ€dimensional analysis of horizontally vibrating floating and fixedâ€end pile groups. International Journal for Numerical and Analytical Methods in Geomechanics, 2019, 43, 2585-2596.	3.3	13
38	Horizontal vibration of a cylindrical rigid foundation embedded in poroelastic half-space. Computers and Geotechnics, 2019, 106, 296-303.	4.7	13
39	Dynamic analysis of an axially loaded pile embedded in elasticâ€poroelasitc layered soil of finite thickness. International Journal for Numerical and Analytical Methods in Geomechanics, 2020, 44, 533-549.	3.3	13
40	Vertical vibration of piles with square crossâ€section. International Journal for Numerical and Analytical Methods in Geomechanics, 2021, 45, 2629-2653.	3.3	13
41	A new dynamic interaction factor for the analysis of pile groups subjected to vertical dynamic loads. Acta Geotechnica, 2020, 15, 3545-3558.	5.7	10
42	Response of pile groups in layered soil to dynamic lateral loads. Computers and Geotechnics, 2022, 142, 104564.	4.7	10
43	Effects of the Tip Location on Single Piles Subjected to Surcharge and Axial Loads. Scientific World Journal, The, 2013, 2013, 1-12.	2.1	9
44	Vertical vibration of a rigid strip footing on viscoelastic halfâ€space. International Journal for Numerical and Analytical Methods in Geomechanics, 2020, 44, 1983-1995.	3.3	9
45	Geotechnical properties of 3D-printed transparent granular soil. Acta Geotechnica, 2021, 16, 1789-1800.	5.7	9
46	Horizontal Vibration of a Large-Diameter Pipe Pile in Viscoelastic Soil. Mathematical Problems in Engineering, 2013, 2013, 1-13.	1.1	8
47	Horizontal dynamic response of a large-diameter pipe pile considering the second-order effect of axial force. Earthquake Engineering and Engineering Vibration, 2018, 17, 567-579.	2.3	8
48	Seismic response of pile groups improved with deep cement mixing columns in liquefiable sand: shaking table tests. Canadian Geotechnical Journal, 2022, 59, 994-1006.	2.8	8
49	Horizontal vibration of rigid strip footings on poroelastic half-space. Journal of Sound and Vibration, 2022, 522, 116731.	3.9	8
50	Response of Inclined Loaded Pile in Layered Foundation Based on Principle of Minimum Potential Energy. International Journal of Geomechanics, 2022, 22, .	2.7	8
51	Resistance of Inner Soil to the Horizontal Vibration of Pipe Piles. Journal of Engineering Mechanics - ASCE, 2017, 143, 06017015.	2.9	7
52	An Analytical Solution for Wave Propagation in a Pipe Pile with Multiple Defects. Acta Mechanica Solida Sinica, 2020, 33, 251-267.	1.9	7
53	Horizontal vibration of a rigid strip footing on viscoelastic halfâ€space. International Journal for Numerical and Analytical Methods in Geomechanics, 2021, 45, 325-335.	3.3	7
54	Undrained cylindrical and spherical cavity expansion in elasticâ€“viscoplastic soils. Canadian Geotechnical Journal, 2021, 58, 1543-1557.	2.8	6

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55	Experimental Study on the Behavior of X-Section Pile Subjected to Cyclic Axial Load in Sand. Shock and Vibration, 2017, 2017, 1-9.	0.6	4
56	A simplified analysis approach for the effect of the installation of adjacent XCC pile on the existing single XCC pile in undrained clay. Acta Geotechnica, 2022, 17, 5499-5519.	5.7	4
57	Theoretical model for the improved PCC pile using expansive concrete. Science China Technological Sciences, 2017, 60, 772-791.	4.0	3
58	A lateral soil resistance model for XCC pile in soft clay considering the effect of the geometry of cross section. Acta Geotechnica, 0, , 1.	5.7	3
59	Large Deformation Numerical Analysis of Displacement-Controlled Cylindrical Cavity Expansion under Anisotropic Initial Stress. International Journal of Geomechanics, 2020, 20, 04020163.	2.7	2
60	High-frequency interference waves in low strain dynamic testing of X-section concrete piles. Earthquake Engineering and Engineering Vibration, 2021, 20, 877-885.	2.3	2
61	Dynamic interaction of coral sand-pile-superstructure during earthquakes: 3D numerical simulations. Marine Georesources and Geotechnology, 2023, 41, 774-790.	2.1	2
62	Propagation characteristics of transient waves in low-strain integrity testing on cast-in-situ concrete thin-wall pipe piles. Frontiers of Architecture and Civil Engineering in China, 2009, 3, 180-186.	0.4	1
63	Model Test on the Soil Arching Effect of Pile-Supported Embankments Using Transparent Soil. Geotechnical Testing Journal, 2021, 44, 20190347.	1.0	1
64	Experimental Study on the Negative Skin Friction of the Pile Group Induced by Rising and Lowering the Groundwater Level. Advances in Civil Engineering, 2021, 2021, 1-12.	0.7	0