

Pengpeng Ni

List of Publications by Year in descending order

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104
papers

2,029
citations

218677

26
h-index

345221

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104
docs citations

104
times ranked

1013
citing authors

#	ARTICLE	IF	CITATIONS
1	Comparison of reactive magnesia, quick lime, and ordinary Portland cement for stabilization/solidification of heavy metal-contaminated soils. <i>Science of the Total Environment</i> , 2019, 671, 741-753.	8.0	119
2	A protective measure for expansive soil slopes based on moisture content control. <i>Engineering Geology</i> , 2020, 269, 105527.	6.3	60
3	Permeable piles: An alternative to improve the performance of driven piles. <i>Computers and Geotechnics</i> , 2017, 84, 78-87.	4.7	55
4	Numerical modeling of normal fault-pipeline interaction and comparison with centrifuge tests. <i>Soil Dynamics and Earthquake Engineering</i> , 2018, 105, 127-138.	3.8	54
5	Fragility analysis of gray iron pipelines subjected to tunneling induced ground settlement. <i>Tunnelling and Underground Space Technology</i> , 2018, 76, 133-144.	6.2	54
6	One-dimensional self-weight consolidation with continuous drainage boundary conditions: Solution and application to clay-drain reclamation. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2019, 43, 1634-1652.	3.3	51
7	A method to estimate the jacking force for pipe jacking in sandy soils. <i>Tunnelling and Underground Space Technology</i> , 2019, 90, 119-130.	6.2	49
8	Generalized Nonlinear Softening Load-Transfer Model for Axially Loaded Piles. <i>International Journal of Geomechanics</i> , 2017, 17, .	2.7	45
9	Earth pressure on shield excavation face for pipe jacking considering arching effect. <i>Tunnelling and Underground Space Technology</i> , 2018, 72, 17-27.	6.2	44
10	Spatial characterization of joint planes and stability analysis of tunnel blocks. <i>Tunnelling and Underground Space Technology</i> , 2013, 38, 357-367.	6.2	43
11	Displacement-Dependent Earth Pressures on Rigid Retaining Walls with Compressible Geofoam Inclusions: Physical Modeling and Analytical Solutions. <i>International Journal of Geomechanics</i> , 2017, 17, .	2.7	42
12	Effect of vacuum removal on consolidation settlement under a combined vacuum and surcharge preloading. <i>Geotextiles and Geomembranes</i> , 2019, 47, 12-22.	4.6	41
13	Estimation of REV Size for Fractured Rock Mass Based on Damage Coefficient. <i>Rock Mechanics and Rock Engineering</i> , 2017, 50, 555-570.	5.4	40
14	Evaluation on the dynamic performance of bridge approach backfilled with fibre reinforced lightweight concrete under high-speed train loading. <i>Computers and Geotechnics</i> , 2018, 104, 42-53.	4.7	38
15	A new model to predict ground surface settlement induced by jacked pipes with flanges. <i>Tunnelling and Underground Space Technology</i> , 2020, 98, 103330.	6.2	38
16	Laboratory investigation of pore pressure dissipation in clay around permeable piles. <i>Canadian Geotechnical Journal</i> , 2018, 55, 1257-1267.	2.8	37
17	Response of heterogeneous slopes to increased surcharge load. <i>Computers and Geotechnics</i> , 2016, 78, 99-109.	4.7	36
18	Load-settlement behaviour of bored piles with loose sediments at the pile tip: Experimental, numerical and analytical study. <i>Computers and Geotechnics</i> , 2018, 102, 92-101.	4.7	34

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19	Plane-strain consolidation theory with distributed drainage boundary. <i>Acta Geotechnica</i> , 2020, 15, 489-508.	5.7	34
20	Displacement-Dependent Lateral Earth Pressure Models. <i>Journal of Engineering Mechanics - ASCE</i> , 2018, 144, .	2.9	32
21	Full-scale experiment and numerical simulation of prestressed concrete cylinder pipe with broken wires strengthened by prestressed CFRP. <i>Tunnelling and Underground Space Technology</i> , 2021, 115, 104021.	6.2	32
22	Use of tire-derived aggregate for seismic mitigation of buried pipelines under strike-slip faults. <i>Soil Dynamics and Earthquake Engineering</i> , 2018, 115, 495-506.	3.8	31
23	Plane strain evaluation of stress paths for supported excavations under lateral loading and unloading. <i>Soils and Foundations</i> , 2018, 58, 146-159.	3.1	29
24	Degradation of rammed earth under wind-driven rain: The case of Fujian Tulou, China. <i>Construction and Building Materials</i> , 2020, 261, 119989.	7.2	29
25	APPLICATION OF BLOCK THEORY MODELING ON SPATIAL BLOCK TOPOLOGICAL IDENTIFICATION TO ROCK SLOPE STABILITY ANALYSIS. <i>International Journal of Computational Methods</i> , 2014, 11, 1350044.	1.3	28
26	Enhanced fragility analysis of buried pipelines through Lasso regression. <i>Acta Geotechnica</i> , 2020, 15, 471-487.	5.7	28
27	Simplified evaluation of pipe strains crossing a normal fault through the dissipated energy method. <i>Engineering Structures</i> , 2018, 167, 393-406.	5.3	27
28	On predicting displacement-dependent earth pressure for laterally loaded piles. <i>Soils and Foundations</i> , 2018, 58, 85-96.	3.1	26
29	Buried rigid pipe-soil interaction in dense and medium sand backfills under downward relative movement: 2D finite element analysis. <i>Transportation Geotechnics</i> , 2019, 21, 100286.	4.5	26
30	Influence of Raised Groundwater Level on the Stability of Unsaturated Soil Slopes. <i>International Journal of Geomechanics</i> , 2018, 18, 04018168.	2.7	24
31	Combined measure of geometry optimization and vegetation for expansive soil slopes. <i>Computers and Geotechnics</i> , 2020, 123, 103588.	4.7	24
32	Experimental Study of Interface Shearing between Calcareous Sand and Steel Plate Considering Surface Roughness and Particle Size. <i>Applied Ocean Research</i> , 2021, 107, 102490.	4.1	24
33	Surcharge preloading consolidation of reclaimed land with distributed sand caps. <i>Marine Georesources and Geotechnology</i> , 2019, 37, 671-682.	2.1	21
34	Analytical solutions for vacuum preloading consolidation with prefabricated vertical drain based on elliptical cylinder model. <i>Computers and Geotechnics</i> , 2019, 116, 103202.	4.7	21
35	Kinematics of bell-spigot joints in vitrified clay pipelines under differential ground movement. <i>Tunnelling and Underground Space Technology</i> , 2019, 91, 103005.	6.2	21
36	Face stability analysis of EPB shield tunnel in dense sand stratum considering the evolution of failure pattern. <i>Computers and Geotechnics</i> , 2021, 130, 103890.	4.7	21

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37	Mechanical properties of CFRP-strengthened prestressed concrete cylinder pipe based on multi-field coupling. <i>Thin-Walled Structures</i> , 2021, 162, 107629.	5.3	21
38	Compressive and flexural behaviour of reinforced concrete permeable piles. <i>Engineering Structures</i> , 2017, 147, 316-327.	5.3	20
39	An experimental study on the cutting failure of polymer grouting. <i>Construction and Building Materials</i> , 2020, 258, 119582.	7.2	20
40	Physical and numerical modelling of axially loaded bored piles with debris at the pile tip. <i>Computers and Geotechnics</i> , 2019, 114, 103146.	4.7	19
41	Strengthening of PCCP with broken wires using prestressed CFRP. <i>Construction and Building Materials</i> , 2021, 267, 120903.	7.2	19
42	Analysis of jacking forces during pipe jacking in granular materials using particle methods. <i>Underground Space (China)</i> , 2019, 4, 277-288.	7.5	18
43	Suffusion response of well graded gravels in roadbed of non-ballasted high speed railway. <i>Construction and Building Materials</i> , 2021, 284, 122848.	7.2	18
44	Vibration response of cable for submerged floating tunnel under simultaneous hydrodynamic force and earthquake excitations. <i>Advances in Structural Engineering</i> , 2018, 21, 1761-1773.	2.4	17
45	Analytical solution for one-dimensional nonlinear consolidation of double-layered soil with improved continuous drainage boundary. <i>European Journal of Environmental and Civil Engineering</i> , 2023, 27, 2746-2767.	2.1	17
46	Direct displacement-based assessment with nonlinear soil-structure interaction for multi-span reinforced concrete bridges. <i>Structure and Infrastructure Engineering</i> , 2014, 10, 1211-1227.	3.7	16
47	Numerical investigation of the uplift performance of prestressed fiber-reinforced polymer floating piles. <i>Marine Georesources and Geotechnology</i> , 2017, 35, 829-839.	2.1	16
48	A new approach for estimating the vertical elastic settlement of a single pile based on the fictitious soil pile model. <i>Computers and Geotechnics</i> , 2021, 134, 104100.	4.7	16
49	Predicting Excavation-Induced Settlement for Embedded Footing: Case Study. <i>International Journal of Geomechanics</i> , 2018, 18, 05018001.	2.7	15
50	Numerical analysis of surcharge preloading consolidation of layered soils via distributed sand blankets. <i>Marine Georesources and Geotechnology</i> , 2019, 37, 902-914.	2.1	15
51	Superposition-based concurrent multiscale approaches for poromechanics. <i>International Journal for Numerical Methods in Engineering</i> , 2021, 122, 7328-7353.	2.8	15
52	Degradation of rammed earth under soluble salts attack and drying-wetting cycles: The case of Fujian Tulou, China. <i>Applied Clay Science</i> , 2021, 212, 106202.	5.2	15
53	Stability of 6082-T6 aluminum alloy columns under axial forces at high temperatures. <i>Thin-Walled Structures</i> , 2020, 157, 107083.	5.3	14
54	Experimental and analytical study of shield tunnel face in dense sand strata considering different longitudinal inclination. <i>Tunnelling and Underground Space Technology</i> , 2021, 113, 103950.	6.2	14

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55	Experimental and numerical investigations into leakage behaviour of a novel prefabricated utility tunnel. <i>Tunnelling and Underground Space Technology</i> , 2020, 104, 103529.	6.2	13
56	Mapping soil nail loads using Federal Highway Administration (FHWA) simplified models and artificial neural network technique. <i>Canadian Geotechnical Journal</i> , 2020, 57, 1453-1471.	2.8	13
57	Peridynamics simulation of structural damage characteristics in rock sheds under rockfall impact. <i>Computers and Geotechnics</i> , 2022, 143, 104625.	4.7	13
58	Serviceability assessment of prestressed concrete cylinder pipes with broken wires: Analytical solution and numerical simulation. <i>Tunnelling and Underground Space Technology</i> , 2022, 126, 104551.	6.2	13
59	Improved energy balance theory applied to roadway support design in deep mining. <i>Journal of Geophysics and Engineering</i> , 2018, 15, 1588-1601.	1.4	12
60	Time Effects on Settlement of Rigid Pile Composite Foundation: Simplified Models. <i>International Journal of Computational Methods</i> , 2018, 15, 1850066.	1.3	12
61	Design optimization of room and pillar mines: a case study of the Xianglushan tungsten mine. <i>Quarterly Journal of Engineering Geology and Hydrogeology</i> , 2018, 51, 352-364.	1.4	12
62	Field evaluation of subgrade soils under dynamic loads using orthogonal earth pressure transducers. <i>Soil Dynamics and Earthquake Engineering</i> , 2019, 121, 12-24.	3.8	12
63	Propagation of settlement in soft soils induced by tunneling. <i>Tunnelling and Underground Space Technology</i> , 2020, 99, 103378.	6.2	12
64	Estimation of Interface Parameter for One-Dimensional Consolidation with Continuous Drainage Boundary Conditions. <i>International Journal of Geomechanics</i> , 2022, 22, .	2.7	12
65	Antiflotation design for water tank using pressure relief technique. <i>Marine Georesources and Geotechnology</i> , 2018, 36, 471-483.	2.1	11
66	Consolidation solution of soil around a permeable pipe pile. <i>Marine Georesources and Geotechnology</i> , 2020, 38, 1097-1105.	2.1	11
67	Semi-Analytical Solution for Consolidation of Ground with Partially Penetrating PVDs under the Free-Strain Condition. <i>Journal of Engineering Mechanics - ASCE</i> , 2021, 147, .	2.9	11
68	Mechanical response estimation of jointed rigid pipes under normal fault rupture. <i>Soil Dynamics and Earthquake Engineering</i> , 2021, 146, 106754.	3.8	11
69	Advanced discretization of rock slope using block theory within the framework of discontinuous deformation analysis. <i>Geomechanics and Engineering</i> , 2017, 12, 723-738.	0.9	11
70	An analytical solution of a finite domain convection-diffusion model for chloride intrusion into RC seawall. <i>Applied Ocean Research</i> , 2022, 118, 103002.	4.1	11
71	Modeling on spatial block topological identification and the irprogressive failure analysis of slopeand cavernrock mass. <i>Procedia Engineering</i> , 2011, 10, 1509-1514.	1.2	10
72	Mathematical characterization of pileâ€“soil interface boundary for consolidation analysis of soil around permeable pipe pile. <i>Canadian Geotechnical Journal</i> , 2021, 58, 1277-1288.	2.8	10

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73	Model Tests of Buoyant Force on Underground Structures. <i>Journal of Testing and Evaluation</i> , 2019, 47, 1216-1235.	0.7	10
74	Bond-Slip Mechanism of Rammed Earth-Timber Joints in Chinese Hakka Tulou Buildings. <i>Journal of Structural Engineering</i> , 2021, 147, .	3.4	9
75	Estimation of Damage Location of Rock Based on Denoised Acoustic Emission Signals Using Wavelet Packet Algorithm. <i>Geotechnical Testing Journal</i> , 2017, 40, 963-977.	1.0	9
76	A semi-analytical solution for consolidation of ground with local permeable pipe pile. <i>Computers and Geotechnics</i> , 2022, 143, 104590.	4.7	9
77	Infiltration analysis of perforated storm sewer: Finite difference modelling versus field tests. <i>Journal of Hydrology</i> , 2020, 590, 125421.	5.4	8
78	Consolidation Theory of Unsaturated Soils with Vertical Drains Considering Well Resistance and Smear Effect under Time-Dependent Loading. <i>Journal of Engineering Mechanics - ASCE</i> , 2021, 147, .	2.9	8
79	Top-down excavation of an underpass linking two large-scale basements in sandy soil. <i>Arabian Journal of Geosciences</i> , 2019, 12, 1.	1.3	7
80	Time Effect of Buoyant Force Reduction for Underground Structures in Clays: Model Test and Case Study. <i>International Journal of Geomechanics</i> , 2020, 20, .	2.7	7
81	A PD-FEM coupling approach for modeling thermal fractures in brittle solids. <i>Theoretical and Applied Fracture Mechanics</i> , 2021, 116, 103129.	4.7	7
82	Insights into natural and carbonation curing of ancient Chinese rammed earth mixed with brown sugar. <i>Construction and Building Materials</i> , 2022, 317, 125969.	7.2	7
83	Ecofriendly improvement of coastal calcareous sandy slope using recycled shredded coconut coir (RSC) and bio-cement. <i>Acta Geotechnica</i> , 2022, 17, 5375-5389.	5.7	7
84	Time Series Analysis of Acoustic Emissions in Prefabricated Utility Tunnel During the Sealing Test. <i>International Journal of Geosynthetics and Ground Engineering</i> , 2020, 6, 1.	2.0	6
85	Positioning design of horizontal drain in sandwiched clay-drain systems for land reclamation. <i>Computers and Geotechnics</i> , 2020, 127, 103777.	4.7	6
86	Mechanical responses of bell-and-spigot joints in buried prestressed concrete cylinder pipe under coupled service and surcharge loads. <i>Structural Concrete</i> , 2021, 22, 827-844.	3.1	6
87	Bearing capacity optimization of T-shaped soil-cement column-improved soft ground under soft fill. <i>Soils and Foundations</i> , 2021, 61, 416-428.	3.1	6
88	Microstructural and mechanical properties of marine clay cemented with industrial waste residue-based binder (IWRB). <i>Acta Geotechnica</i> , 2022, 17, 1859-1877.	5.7	6
89	Physical and numerical modelling of infiltration from drainage holes for perforated storm sewer. <i>Acta Geotechnica</i> , 2022, 17, 527-543.	5.7	5
90	Effects of soil-structure interaction on direct displacement-based assessment procedure of multi-span reinforced concrete bridges. <i>European Journal of Environmental and Civil Engineering</i> , 2013, 17, 507-531.	2.1	4

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91	Energy dissipation of rammed earth-timber joints under cyclic loading. <i>Soil Dynamics and Earthquake Engineering</i> , 2021, 145, 106728.	3.8	4
92	Strength improvement of rock fractures and aggregates cemented with bio-slurry. <i>Materials Letters</i> , 2021, 305, 130866.	2.6	4
93	Stress distribution of embedded caisson foundation under lateral load based on the continuum approach. <i>Marine Georesources and Geotechnology</i> , 2022, 40, 1328-1340.	2.1	4
94	Experimental Study of Compaction and Expansion Effects Caused by Penetration of Core Pile During Construction of SDCM Pile. <i>International Journal of Geomechanics</i> , 2022, 22, .	2.7	4
95	Load Capacity of Perforated Reinforced Concrete Sewer Pipes. <i>Journal of Pipeline Systems Engineering and Practice</i> , 2022, 13, 04021065.	1.6	3
96	A stochastic analysis approach for marine riser's cross-flow/in-line VIV under heave-induced parametric vibration. <i>Ships and Offshore Structures</i> , 2022, 17, 952-972.	1.9	2
97	Seismic assessment and retrofitting of existing structure based on nonlinear static analysis. <i>Structural Engineering and Mechanics</i> , 2014, 49, 631-644.	1.0	2
98	Model-scale tests to examine water pressures acting on potentially buoyant underground structures in clay strata. <i>Journal of Rock Mechanics and Geotechnical Engineering</i> , 2022, 14, 861-872.	8.1	2
99	Closure to "Generalized Nonlinear Softening Load-Transfer Model for Axially Loaded Piles" by Pengpeng Ni, Linhui Song, Guoxiong Mei, and Yanlin Zhao. <i>International Journal of Geomechanics</i> , 2018, 18, 07018014.	2.7	1
100	Generalized Plastic Mechanics-Based Constitutive Model for Estimation of Dynamic Stresses in Unsaturated Subgrade Soils. <i>International Journal of Geomechanics</i> , 2020, 20, 04020084.	2.7	1
101	Dynamic performance of a long curved river-crossing pipeline system with multiple floating bodies during immersion process. <i>Ocean Engineering</i> , 2021, 234, 109204.	4.3	1
102	An innovative solution for the dynamic response of buried pipelines in layered transversely isotropic soil under pavement structures. <i>Computers and Geotechnics</i> , 2022, 143, 104602.	4.7	1
103	Use of bag-sealed bored pile in Karst areas. <i>Japanese Geotechnical Society Special Publication</i> , 2020, 8, 267-271.	0.2	0
104	Bearing capacity of plane-strain footings under K0 conditions. <i>Arabian Journal of Geosciences</i> , 2021, 14, 1.	1.3	0