

Pengpeng Ni

List of Publications by Year in descending order

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104
papers

2,029
citations

218677

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345221

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docs citations

104
times ranked

1013
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	Physical and numerical modelling of infiltration from drainage holes for perforated storm sewer. <i>Acta Geotechnica</i> , 2022, 17, 527-543.	5.7	5
4	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
5	Load Capacity of Perforated Reinforced Concrete Sewer Pipes. <i>Journal of Pipeline Systems Engineering and Practice</i> , 2022, 13, 04021065.	1.6	3
6	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
7	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
8	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
9	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
10	Estimation of Interface Parameter for One-Dimensional Consolidation with Continuous Drainage Boundary Conditions. <i>International Journal of Geomechanics</i> , 2022, 22, .	2.7	12
11	Peridynamics simulation of structural damage characteristics in rock sheds under rockfall impact. <i>Computers and Geotechnics</i> , 2022, 143, 104625.	4.7	13
12	A semi-analytical solution for consolidation of ground with local permeable pipe pile. <i>Computers and Geotechnics</i> , 2022, 143, 104590.	4.7	9
13	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
14	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
15	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
16	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
17	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
18	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

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19	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
20	Strengthening of PCCP with broken wires using prestressed CFRP. <i>Construction and Building Materials</i> , 2021, 267, 120903.	7.2	19
21	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
22	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
23	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
24	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
25	Bearing capacity of plane-strain footings under K0 conditions. <i>Arabian Journal of Geosciences</i> , 2021, 14, 1.	1.3	0
26	Bond-Slip Mechanism of Rammed Earth-Timber Joints in Chinese Hakka Tulou Buildings. <i>Journal of Structural Engineering</i> , 2021, 147, .	3.4	9
27	Energy dissipation of rammed earth-timber joints under cyclic loading. <i>Soil Dynamics and Earthquake Engineering</i> , 2021, 145, 106728.	3.8	4
28	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
29	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
30	Mechanical response estimation of jointed rigid pipes under normal fault rupture. <i>Soil Dynamics and Earthquake Engineering</i> , 2021, 146, 106754.	3.8	11
31	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
32	Superposition-based concurrent multiscale approaches for poromechanics. <i>International Journal for Numerical Methods in Engineering</i> , 2021, 122, 7328-7353.	2.8	15
33	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
34	Mathematical characterization of pile-soil interface boundary for consolidation analysis of soil around permeable pipe pile. <i>Canadian Geotechnical Journal</i> , 2021, 58, 1277-1288.	2.8	10
35	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
36	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

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37	Strength improvement of rock fractures and aggregates cemented with bio-slurry. <i>Materials Letters</i> , 2021, 305, 130866.	2.6	4
38	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
39	Enhanced fragility analysis of buried pipelines through Lasso regression. <i>Acta Geotechnica</i> , 2020, 15, 471-487.	5.7	28
40	Plane-strain consolidation theory with distributed drainage boundary. <i>Acta Geotechnica</i> , 2020, 15, 489-508.	5.7	34
41	Consolidation solution of soil around a permeable pipe pile. <i>Marine Georesources and Geotechnology</i> , 2020, 38, 1097-1105.	2.1	11
42	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
43	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
44	Positioning design of horizontal drain in sandwiched clay-drain systems for land reclamation. <i>Computers and Geotechnics</i> , 2020, 127, 103777.	4.7	6
45	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
46	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
47	Stability of 6082-T6 aluminum alloy columns under axial forces at high temperatures. <i>Thin-Walled Structures</i> , 2020, 157, 107083.	5.3	14
48	Infiltration analysis of perforated storm sewer: Finite difference modelling versus field tests. <i>Journal of Hydrology</i> , 2020, 590, 125421.	5.4	8
49	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
50	An experimental study on the cutting failure of polymer grouting. <i>Construction and Building Materials</i> , 2020, 258, 119582.	7.2	20
51	Combined measure of geometry optimization and vegetation for expansive soil slopes. <i>Computers and Geotechnics</i> , 2020, 123, 103588.	4.7	24
52	Use of bag-sealed bored pile in Karst areas. <i>Japanese Geotechnical Society Special Publication</i> , 2020, 8, 267-271.	0.2	0
53	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
54	Propagation of settlement in soft soils induced by tunneling. <i>Tunnelling and Underground Space Technology</i> , 2020, 99, 103378.	6.2	12

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55	A protective measure for expansive soil slopes based on moisture content control. <i>Engineering Geology</i> , 2020, 269, 105527.	6.3	60
56	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
57	Surcharge preloading consolidation of reclaimed land with distributed sand caps. <i>Marine Georesources and Geotechnology</i> , 2019, 37, 671-682.	2.1	21
58	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
59	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
60	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
61	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
62	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
63	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
64	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
65	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
66	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
67	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
68	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
69	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
70	Model Tests of Buoyant Force on Underground Structures. <i>Journal of Testing and Evaluation</i> , 2019, 47, 1216-1235.	0.7	10
71	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
72	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

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73	Predicting Excavation-Induced Settlement for Embedded Footing: Case Study. International Journal of Geomechanics, 2018, 18, 05018001.	2.7	15
74	Laboratory investigation of pore pressure dissipation in clay around permeable piles. Canadian Geotechnical Journal, 2018, 55, 1257-1267.	2.8	37
75	On predicting displacement-dependent earth pressure for laterally loaded piles. Soils and Foundations, 2018, 58, 85-96.	3.1	26
76	Numerical modeling of normal fault-pipeline interaction and comparison with centrifuge tests. Soil Dynamics and Earthquake Engineering, 2018, 105, 127-138.	3.8	54
77	Displacement-Dependent Lateral Earth Pressure Models. Journal of Engineering Mechanics - ASCE, 2018, 144, .	2.9	32
78	Fragility analysis of gray iron pipelines subjected to tunneling induced ground settlement. Tunnelling and Underground Space Technology, 2018, 76, 133-144.	6.2	54
79	Improved energy balance theory applied to roadway support design in deep mining. Journal of Geophysics and Engineering, 2018, 15, 1588-1601.	1.4	12
80	Antiflotation design for water tank using pressure relief technique. Marine Georesources and Geotechnology, 2018, 36, 471-483.	2.1	11
81	Earth pressure on shield excavation face for pipe jacking considering arching effect. Tunnelling and Underground Space Technology, 2018, 72, 17-27.	6.2	44
82	Use of tire-derived aggregate for seismic mitigation of buried pipelines under strike-slip faults. Soil Dynamics and Earthquake Engineering, 2018, 115, 495-506.	3.8	31
83	Influence of Raised Groundwater Level on the Stability of Unsaturated Soil Slopes. International Journal of Geomechanics, 2018, 18, 04018168.	2.7	24
84	Time Effects on Settlement of Rigid Pile Composite Foundation: Simplified Models. International Journal of Computational Methods, 2018, 15, 1850066.	1.3	12
85	Closure to "Generalized Nonlinear Softening Load-Transfer Model for Axially Loaded Piles" by Pengpeng Ni, Linhui Song, Guoxiong Mei, and Yanlin Zhao. International Journal of Geomechanics, 2018, 18, 07018014.	2.7	1
86	Simplified evaluation of pipe strains crossing a normal fault through the dissipated energy method. Engineering Structures, 2018, 167, 393-406.	5.3	27
87	Load-settlement behaviour of bored piles with loose sediments at the pile tip: Experimental, numerical and analytical study. Computers and Geotechnics, 2018, 102, 92-101.	4.7	34
88	Design optimization of room and pillar mines: a case study of the Xianglushan tungsten mine. Quarterly Journal of Engineering Geology and Hydrogeology, 2018, 51, 352-364.	1.4	12
89	Evaluation on the dynamic performance of bridge approach backfilled with fibre reinforced lightweight concrete under high-speed train loading. Computers and Geotechnics, 2018, 104, 42-53.	4.7	38
90	Generalized Nonlinear Softening Load-Transfer Model for Axially Loaded Piles. International Journal of Geomechanics, 2017, 17, .	2.7	45

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91	Permeable piles: An alternative to improve the performance of driven piles. Computers and Geotechnics, 2017, 84, 78-87.	4.7	55
92	Compressive and flexural behaviour of reinforced concrete permeable piles. Engineering Structures, 2017, 147, 316-327.	5.3	20
93	Numerical investigation of the uplift performance of prestressed fiber-reinforced polymer floating piles. Marine Georesources and Geotechnology, 2017, 35, 829-839.	2.1	16
94	Displacement-Dependent Earth Pressures on Rigid Retaining Walls with Compressible Geofoam Inclusions: Physical Modeling and Analytical Solutions. International Journal of Geomechanics, 2017, 17, .	2.7	42
95	Estimation of REV Size for Fractured Rock Mass Based on Damage Coefficient. Rock Mechanics and Rock Engineering, 2017, 50, 555-570.	5.4	40
96	Advanced discretization of rock slope using block theory within the framework of discontinuous deformation analysis. Geomechanics and Engineering, 2017, 12, 723-738.	0.9	11
97	Estimation of Damage Location of Rock Based on Denoised Acoustic Emission Signals Using Wavelet Packet Algorithm. Geotechnical Testing Journal, 2017, 40, 963-977.	1.0	9
98	Response of heterogeneous slopes to increased surcharge load. Computers and Geotechnics, 2016, 78, 99-109.	4.7	36
99	APPLICATION OF BLOCK THEORY MODELING ON SPATIAL BLOCK TOPOLOGICAL IDENTIFICATION TO ROCK SLOPE STABILITY ANALYSIS. International Journal of Computational Methods, 2014, 11, 1350044.	1.3	28
100	Direct displacement-based assessment with nonlinear soil-structure interaction for multi-span reinforced concrete bridges. Structure and Infrastructure Engineering, 2014, 10, 1211-1227.	3.7	16
101	Seismic assessment and retrofitting of existing structure based on nonlinear static analysis. Structural Engineering and Mechanics, 2014, 49, 631-644.	1.0	2
102	Effects of soil-structure interaction on direct displacement-based assessment procedure of multi-span reinforced concrete bridges. European Journal of Environmental and Civil Engineering, 2013, 17, 507-531.	2.1	4
103	Spatial characterization of joint planes and stability analysis of tunnel blocks. Tunnelling and Underground Space Technology, 2013, 38, 357-367.	6.2	43
104	Modeling on spatial block topological identification and the irprogressive failure analysis of slopeand cavernrock mass. Procedia Engineering, 2011, 10, 1509-1514.	1.2	10